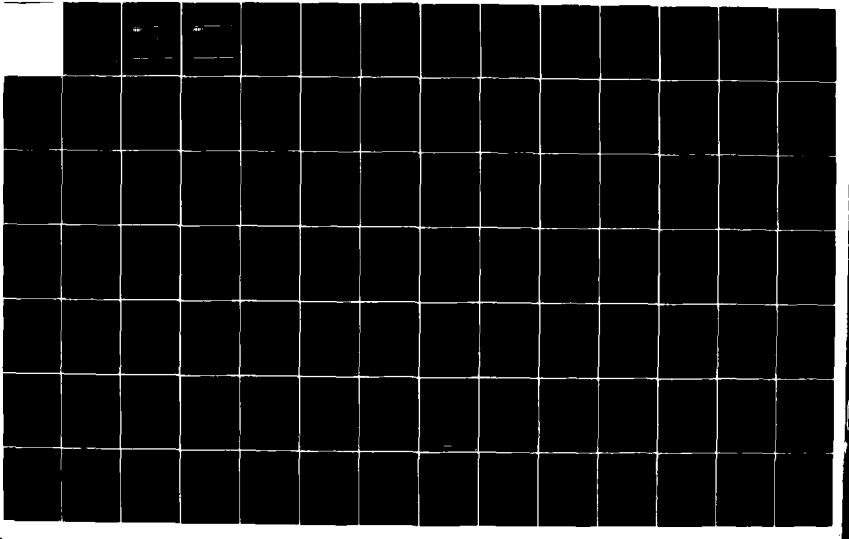
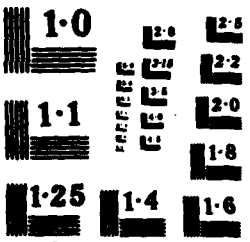
AD A160 998 COMBAT SERVICE SUPPORT MISSION AREA MATERIEL PLAN (CSS MAMP) USER'S MANUAL(U) BDM CORP MCLEAN VA 30 SEP 85 BDM/W-85-0795-TR DAAK70-83-D-0019

UNCLASSIFIED F/G 15/5 NL




1·0
1·1
1·25
1·4
1·6
1·8
2·0
2·2
2·5

(2)

BDM
THE BDM CORPORATION

AD-A160 998

7915 Jones Branch Drive, McLean, Virginia 22102-3396 • (703) 821-5000 • Telex: 901103 BDM MCLN

Combat Service Support Mission Area Materiel Plan (CSS MAMP) User's Manual

DAAK70-83-D-0019

PREPARED FOR THE US ARMY BELVOIR RESEARCH AND DEVELOPMENT CENTER,
FORT BELVOIR, VIRGINIA 22060

SEPTEMBER 30, 1985 BDM/W-85-0795-TR

THE BDM CORPORATION

7915 Jones Branch Drive, McLean, Virginia 22102-3396 • (703) 821-5000 • Telex: 901103 BDM MCLN

BDM/W-85-0795-TR

COMBAT SERVICE SUPPORT MISSION AREA MATERIEL PLAN (CSS MAMP) USER'S MANUAL

September 30, 1985

Prepared for the US Army Belvoir Research and Development Center, Fort Belvoir, Virginia 22060.

THE BDM CORPORATION

FOREWORD

This technical report is submitted to the US Army Belvoir Research and Development Center (BRDC), Fort Belvoir, Virginia under Contract Number DAAK70-83-D-0019, Task Order 19, by The BDM Corporation, 7915 Jones Branch Drive, McLean, Virginia. This report documents the status of the Combat Service Support Mission Area Materiel Plan (CSS MAMP) software as of 30 September 1985. The software is continually evolving as is the underlying data base, so the reader is cautioned to explore the actual software for further refinements. The text of this document is available on the BRDC Plexus P60 computer for convenient reference and update. The MAMP is implemented on the P60 using the Informix Database Management System of Relational Database Systems, Inc.

This document does not include sample program outputs because they are typically classified. The reader is urged to refer to the three BRDC published CSS MAMP documents of February, May, and September 1985 for the actual output of this software. The February Plan illustrates the historical evolution of the automated MAMP process. The May Plan introduces several new report formats for commodities, projects, systems, and workpackages. The September Plan introduces the funding profiles format for deficiencies and commodities.

THE BDM CORPORATION

TABLE OF CONTENTS (Continued)

TABLE OF CONTENTS:

THE BDM CORPORATION

CHAPTER I
HOW TO RUN THE CSS MAMP

This chapter presents reasonably concise instructions on how to run CSS MAMP reports. It is intended as an easy reference guide for the Plexus system user who is asked to prepare any of the seventeen specific preprogrammed reports of the MAMP. The text of this chapter is on-line at the file /u/plan/document/howto. Corrections or revisions to this text should be posted to that file.

A. GENERAL

These instructions presume that the reader is able to run the machine and is familiar with informix. Some of the instructions get a bit tricky, so they will be very explicit. The first task is to decide exactly what is going to be in the report to be printed. There are a lot of different individual reports to address a wide variety of questions. So the first requirement is to get an exact description of which reports are desired and in which order.

The MAMP reports are set up to take the page number as a parameter. This is the starting page number for that report. Usually, but not always the first printed page in a volume will be page 1. If more than one report is in the same volume then the next report will start on a page number that is determined by the length of the previous report. The standard UNIX function "tail" can be used to see which page was last printed prior to starting processing on the next report. For example "tail commod.out" will give the last page used in the commodity summary report.

It is possible to set up some shells (which are preprogrammed sequences of operating system commands) such as /u/plan/db/system to take away all the drudgery of running any particular volume. But this presumes that the volume configuration is stable - which it isn't. It also takes all the understanding of the process away from the operator. Therefore, these instructions will focus on doing it the hard way - the way it was done for the May 85 MAMP - and not on the way it can be done using shells.

B. GETTING STARTED

1. Complete all changes to the data base. Data base changes during the process of running the MAMP are deadly. All kinds of strange events have been known to result from last minute changes. All of them are very frustrating.

2. Run spot checks of the data base using informer or some ad hoc reports. These will help identify problems that may be lurking in there. Specifically, you are looking for major defects in the database that will have an obvious impact on the printed reports and which historically have been common. Informer is a perfect tool for this since the problems will change over time. My favorites are:

(a) This is used to find systems which do not have completely specified ssndesc entries. They will show up as complete separate pages in the commodity report.

```
read into a
csscontrol_ssn_no ssndesc_cmd ssndesc_major_system
where ssndesc_cmd=" " or ssndesc_major_system=" "
joining csscontrol_ssn_no=optional ssndesc_ssn_no;
```

(b) This is used to quickly find all the commodity line - command combinations which will be printed in the commodity report. Check for misspelled commodity lines.

```
read into a
unique ssndesc_major_system ssndesc_cmd
joining ssndesc_ssn_no=csscontrol_ssn_no;
```

(c) This is used to find systems which for some reason do not have system titles or mission areas defined. They look bad in the system and deficiency reports.

```
read into a
csscontrol_ssn_no lrpproc_ssn_title lrpproc_miss_name
where lrpproc_ssn_title=" " or lrpproc_miss_name=" "
joining csscontrol_ssn_no=optional lrpproc_ssn_no;
```

(d) This is used to identify the workpackage command names that have been used in the data base. Sometimes there are inconsistent spellings. Also useful in deciding what commands belong to "PM's" and to "Others".

```
read into a unique wkpkg_cmd;
```

3. All obvious data errors should be corrected at this time!!!

4. Rebuild the temporary utility files that are commonly used. These are pseudolink, ssnpri, and assoc. This process takes a while (at least 1 hour), so be sure you are happy with the data contained in the parent files: mergessn, ssndef, and rollup respectively. The following shells are used to rebuild them:

/u/plan/db/buildps - rebuilds the pseudolink file from the mergessn file. This is mandatory if any of the workpackage to system linkages in mergessn have changed. Otherwise they will not be reflected in any of the printed reports.

/u/plan/db/addmergessn - optionally rebuilds mergessn from the pseudolink file. As it does so, it alphabetizes the SSN's and eliminates duplicate entries. Be sure that buildps has been run first so that pseudolink is current.

/u/plan/db/buildssnpri - rebuilds the ssnpri file from the ssndef file. This is mandatory if any of the system to deficiency linkages in ssndef have changed. This is particularly important to the deficiency reports.

/u/plan/db/addssndef - optionally rebuilds ssndef from the ssnpri file. As it does so, it numerically orders the deficiencies and eliminates duplicate entries. Be sure than buildssnpri has been run first so that ssnpri is current.

/u/plan/db/buildassoc - rebuilds the assoc file from the rollup file. Assoc is only used in reconstituting the procurement funding for rollup NSI's. It is mandatory to rebuild it if the rollup to associated SSN linkages have been changed.

/u/plan/db/addrollup - optionally rebuilds the rollup file from the assoc file. As it does so, it alphabetizes the associated SSN's and eliminates duplicate entries. Be sure to run buildassoc first so that assoc is current.

/u/plan/db/assocrollup - modifies the procurement funding dollars in lrpproc for rollup systems which are NSI's. This is a very time consuming procedure. Direct entry into lrpproc is desireable if the associated SSN's will ever settle down. Must run buildassoc first. Do not run this if the linkages have not changed.

/u/plan/db/priority - rebuilds the two priority ranking files prior1 and prior2. These will change if ssndef or mergessn have changed. The files ssnpri and pseudolink should be rebuilt first. This must be run before any of the priority reports.

C. RUNNING THE REPORTS

All reports are run from the /u/plan/db directory. Move there using the command "sd db". The # symbol used here means to insert the starting page number for the printed report into the command as indicated.. The cmd symbol means to insert the command name in capital letters into the command as indicated. Use "tail" to find out the page number of the last page used.

1. Deficiency Summary

   command: defroll #
   writes to: defroll.out
   comments: Takes about 1 hour. Dbstatus reports end of file errors which should be ignored.

2. Deficiency Funding Profile

   command: defpro #
   writes to: defpro2.out
   comments: Takes about 1 hour.

3. Commodity Summary

   command: acego commod #
   writes to: commod.out
   comments: Takes about 20 minutes.

4. Commodity Funding Profile

   command: compro #
   writes to: compro2.out
   comments: Takes about 30 minutes.

5. Commodity Index

   command: acego comindex
   writes to: comindex.out
   comments: Takes about 5 minutes. Page numbers begin with A-1.

6. Project Summary

   command: acego peproj #
   writes to: peproj.out
   comments: Takes about 20 minutes. Includes all CSS funded projects in cssprrdte.

7. Project Index

   command: acego projindex
   writes to: projindex.out
   comments: Takes about 5 minutes. Page numbers begin with B-1.

8. System Rollup Summary

   command: acego sysrollnew cmd #
   writes to: sysrollnew.out
   comments: Takes about 10-15 minutes.

9. System Funding Summary

   command: acego sysdollars cmd #
   writes to: sysdollars.out
   comments: Takes about 10-15 minutes.

command: acego sysdolla #
writes to: sysdolla.out
comments: Includes Project Managers.

command: acego sysdollb #
writes to: sysdollb.out
comments: Includes Other Commands.

10. System Resources Summary (w/o 6.3b/6.4 Workpackages)

command: acego sysres cmd #
writes to: sysres.out
comments: Takes about 10 minutes.

command: acego sysresa #
writes to: sysresa.out
comments: Includes Project Managers.

command: acego sysresb #
writes to: sysresb.out
comments: Includes Other Commands.

11. Base Case/Type Classified Streamlined Summary

command: acego basetc cmd #
writes to: basetc.out
comments: Takes about 5 minutes.

command: acego basetca #
writes to: basetca.out
comments: Includes Project Managers.

command: acego basetcb #
writes to: basetcb out
comments Includes Other Commands

12. System Index

```
command:    acego sysindex
writes to:  sysindex.out
comments:   Takes about 5 minutes.  Ordered by title.

command:    acego sysindex1
writes to:  sysindex1.out
comments:   Takes about 5 minutes.  Ordered by SSN.
```

13. Workpackage Appendix

```
command:    acego wrkapdxa cmd #
writes to:  wrkapdxa.out
comments:   Takes about 10 minutes.  Writes on pages A-#.

command:    acego wrkapdxb cmd #
writes to:  wrkapdxb.out
comments:   Takes about 10 minutes.  Writes on pages B-#.

command:    acego wrkapdxc #
writes to:  wrkapdxc.out
comments:   Takes about 10 minutes.  Writes on pages B-#.
            Includes Project Manager workpackages.

command:    acego wrkapdxd #
writes to:  wrkapdxd.out
comments:   Takes about 10 minutes.  Writes on pages B-#.
            Includes Other Command workpackages.
```

14. Workpackage Index

```
command:    acego wkpindex
writes to:  wkpindex.out
comments:   Takes about 5 minutes.  Page numbers begin with 1
```

15. System 1 to N Priority Report

command: acego priorcss
writes to: priorcss.out
comments: Takes about 10 minutes.

16. Workpackage 1 to N Priority Report

command: acego priorwpall
writes to: priorwpall.out
comments: Takes about 10 minutes.

17. Priority Rating Schemes Comparison Report

command: pcomp
writes to: pcomp.out
comments: Takes about 30 minutes.

D. BUILDING SHELLS

As stated earlier, a shell is a preprogrammed sequence of commands that is executed as a single command. The sequence can be simple or quite complex. Any operating system command or executable program can be included in the shell and there are a few extra enhancements which can only be done within a shell. It is possible that a single command could execute the entire MAMP.

To create a shell, one uses the standard editor (vi) to type in all the commands just as if they were being entered directly from the keyboard. Inside the editor, mistakes can be corrected and the sequence revised before attempting to run it. When the shell is complete and saved as a file, then the file can be executed by typing in its name. Note that the file's execute flag must be turned on first (chmod +x filename) or the system will reject the command.

A couple of UNIX features are quite useful to shells. These are pipes (|) and input/output redirection (<, >, and >>). The reader should refer to the UNIX text to become familiar with these concepts. Also the reader should

feel comfortable browsing through the UNIX reference manual to examine the meaning of new commands and parameters. Although UNIX is very powerful, it is not very self evident. The best way to learn new features is to see what others have done and to try to figure out why it works by consulting the manual.

A sample shell script to create the entire system volume, /u/plan/db/system, is included below. The reports here are contained in the /u/plan/rpt.Neil directory since they require the page number be input from the standard input file and not as a parameter to the program.

```
echo "SEE SYSTEM.LOG FOR A LOG OF THIS PROCEDURE"

expr 1 | acego ../rpt.Neil/basetc AVSCOM > system.log
mv basetc.out system.avs
tail -10c system.avs | pageread.out | acego ../rpt.Neil/sysres AVSCOM >> system.log
tail +2 sysres.out >> system.avs
tail -10c system.avs | pageread.out | acego ../rpt.Neil/sysdollars AVSCOM >> system.log
tail +2 sysdollars.out >> system.avs
echo "SYSTEM REPORT FOR AVSCOM COMPLETED (system.avs)"

tail -10c system.avs | pageodd.out | acego ../rpt.Neil/basetc BELVOIR  >> system.log
mv basetc.out system.bel
tail -10c system.bel | pageread.out | acego ../rpt.Neil/sysres BELVOIR  >> system.log
tail +2 sysres.out >> system.bel
tail -10c system.bel | pageread.out | acego ../rpt.Neil/sysdollars BELVOIR >> system.log
tail +2 sysdollars.out >> system.bel
echo "SYSTEM REPORT FOR BELVOIR COMPLETED (system.bel)"

tail -10c system.bel | pageodd.out | acego ../rpt.Neil/basetc CECOM  >> system.log
mv basetc.out system.cec
tail -10c system.cec | pageread.out | acego ../rpt.Neil/sysres CECOM  >> system.log
tail +2 sysres.out >> system.cec
tail -10c system.cec | pageread.out | acego ../rpt.Neil/sysdollars CECOM >> system.log
tail +2 sysdollars.out >> system.cec
echo "SYSTEM REPORT FOR CECOM COMPLETED (system.cec)"
```

```
tail -10c system.cec | pageodd.out | acego ../rpt.Neil/basetc ERADCOM  >> system.log
mv basetc.out system.era
tail -10c system.era | pageread.out | acego ../rpt.Neil/sysres ERADCOM  >> system.log
tail +2 sysres.out >> system.era
tail -10c system.era | pageread.out | acego ../rpt.Neil/sysdollars ERADCOM >> system.log
tail +2 sysdollars.out >> system.era
echo "SYSTEM REPORT FOR ERADCOM COMPLETED (system.era)"

tail -10c system.era | pageodd.out | acego ../rpt.Neil/basetc NATICK  >> system.log
mv basetc.out system.nat
tail -10c system.nat | pageread.out | acego ../rpt.Neil/sysres NATICK >> system.log
tail +2 sysres.out >> system.nat
tail -10c system.nat | pageread.out | acego ../rpt.Neil/sysdollars NATICK >> system.log
tail +2 sysdollars.out >> system.nat
echo "SYSTEM REPORT FOR NATICK COMPLETED (system.nat)"

tail -10c system.nat | pageodd.out | acego ../rpt.Neil/basetc TACOM  >> system.log
mv basetc.out system.tac
tail -10c system.tac | pageread.out | acego ../rpt.Neil/sysres TACOM  >> system.log
tail +2 sysres.out >> system.tac
tail -10c system.tac | pageread.out | acego ../rpt.Neil/sysdollars TACOM >> system.log
tail +2 sysdollars.out >> system.tac
echo "SYSTEM REPORT FOR TACOM COMPLETED (system.tac)"

tail -10c system.tac | pageodd.out | acego ../rpt.Neil/basetca  >> system.log
mv basetca.out system.pms
tail -10c system.pms | pageread.out | acego ../rpt.Neil/sysresa >> system.log
tail +2 sysresa.out >> system.pms
tail -10c system.pms | pageread.out | acego ../rpt.Neil/sysdolla >> system.log
tail +2 sysdolla.out >> system.pms
echo "SYSTEM REPORT FOR PMS COMPLETED (system.pms)"

tail -10c system.pms | pageodd.out | acego ../rpt.Neil/basetcb  >> system.log
mv basetcb.out system.oth
tail -10c system.oth | pageread.out | acego ../rpt.Neil/sysresb >> system.log
tail +2 sysresb.out >> system.oth
tail -10c system.oth | pageread.out | acego ../rpt.Neil/sysdollb >> system.log
tail +2 sysdollb.out >> system.oth
echo "SYSTEM REPORT FOR OTHERS COMPLETED (system.oth)"
```

```
acego ../rpt.Neil/sysindex
mv sysindex.out system.idx
acego ../rpt.Neil/sysindex1
mv sysindex1.out system.idx1
echo "SYSTEM INDEXES COMPLETED (system.idx and system.idx1)
```

E. PRINTING AND SAVING THE REPORTS

Reports are printed on the lineprinter using the lprint command or the lpr line printer spooler command. Lprint can only print one file at a time, and multiple print jobs will confuse the printer. Lpr will queue the jobs and wait for the printer to become available. Lpr also prints a banner and several page ejects with each job, so it will be unacceptable if the print jobs must run on consecutive sheets of paper. Also note that for some reason informix inserts one extra line at the end of each report. If different files need to be printed on consecutive pages then some manual control over the printer platen must be performed to insure that the reports come out centered on the page.

Several of the reports use the command name as a parameter and are run several times in the course of building the entire set of reports. Each time a report is run it will write over the previous file with the same name. Thus if the previous report has not yet been printed, it must be renamed so that it will not be lost. Use the move command (mv) to rename the file.

It is also good practice to save the report files for a while. For example, the printer may mangle the camera ready masters. A good idea is to create a separate directory for every major publication date and store the prepared reports in that directory. The report programs might also be copied to that directory to preserve their current state. Then make a backup tape of that directory for archival purposes.

CHAPTER II

DICTIONARY AND CROSS REFERENCE WITH CSS MAMP REPORTS FOR DATA BASE MAT_PLAN

This chapter presents a detailed description of the mat_plan data base file and the data contained in those files. Further, it cross-references that data to the printed reports which are affected if the data is changed. For example, an asterisk in Column F indicates that the data element appears in the project summary, or that it controls which data might be included in the project summary. The text of this chapter is on-line at the file /u/plan/document/schema. Corrections or revisions to this text should be posted to that file.

THE BDM CORPORATION

DICTIONARY AND CROSS REFERENCE WITH CSS MAMP REPORTS FOR DATABASE MAT_PLAN

CSS MAMP REPORTS:

(All reports are in the directory /u/plan/rpt.Linda. Some reports with the same name are in /u/plan/rpt.Neil - these are variants where the page number is read from standard input instead of as a parameter. The reports shown here are only those which print formal reports. They are supported by a collection of other programs which maintain the data base and the temporary construction files as described later.)

DEFICIENCY REPORTS:

A	deficiency profiles	(defpro2)
B	deficiency rollups	(defroll)

COMMODITY REPORTS:

C	commodity summary	(commod)
D	commodity profiles	(compro2)
E	commodity index	(comindex)

PROJECT REPORTS:

F	project summary	(peproj)
G	project index	(projindex)

SYSTEM REPORTS:

H	system rollup	(sysrollnew)
J	system funding rpt	(sysdollars, sysdolla, sysdollb)
K	system resource rpt	(sysres, sysresa, sysresb)
L	system basecase rpt	(basetc, basetca, basetcb)
M	system index	(sysindex, sysindex1)

THE BDM CORPORATION

WORKPACKAGE REPORTS:

N	workpackage appx	(wrkapdxa,wrkapdxb,wrkapdxc,wrkapdxd)
P	workpackage index	(wkpindex)

PRIORITY REPORTS:

Q	system priority	(priorsys,priorcss,pricsscmd)
R	workpackage priority	(priorwp,priorwpall,priorwpcmd)
S	priority comparison	(pcomp)

MAT_PLAN DATA BASE FILES AND DESCRIPTIONS:

FILE assoc

This file relates primary ssns to an associated ssn. It is automatically regenerated by the shell */u/plan/db/buildassoc*. No data should be entered into it directly - enter data into rollup instead. This file is not used directly in a printed report but instead is used in the program assroll to compute the total funding for ssns which are nsi's to be inserted into lrpproc by the shell /u/plan/db/assocrollup.

FIELDS	TYPES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
assoc_ssn_no	char 6																	
assoc_ssni	char 6																	

FILE compro1

This is a temporary file used in the creation of the commodity profile report. It contains RDTE funding totals for each commodity line represented by systems in csscontrol. Data should not be entered into it directly. It is automatically regenerated by executing */u/plan/db/compro*.

FIELDS	TYPES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
compro1_commodity	char 10			*														
compro1_cmd	char 12			*														
c_f85_tb	long			*														
(to c_f92_tb)																		
c_u85_tb	long			*														
(to c_u92_tb)																		
c_f85_dev	long			*														
(to c_f92_dev)																		
c_u85_dev	long			*														
(to c_u92_dev)																		

FILE csscontrol

This is the system control file. Only ssns entered into this file will be printed in MAMP reports. The title is currently unused. The types are: 0-base case, 1-type classified, 2-devdlopmental, 3-pips, 4-tech demo, 5-broad base tech area, 6-reqt above corps.

FIELDS	TYPES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
csscontrol_ssn_no	char 6	*	*	*	*	*	*		*	*	*	*	*	*		*	*	*
csscontrol_type	integer	*	*		*					*	*	*	*				*	*
csscontrol_title	char 60																	

FILE cssprrdte

This is the project control file. Only projects entered into this file will be included in the project reports.

FIELDS	TYPES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
cssprrdte_cmd	char 12						*	*		*				*	*		*	
cssprrdte_pe	char 5						*	*		*				*	*		*	
cssprrdte_proj_no	char 4						*	*		*				*	*		*	
cssprrdte_proj_indx	composite						*	*		*				*	*		*	
cssprrdte_cmd, cssprrdte_pe, cssprrdte_proj_no																		
cssprrdte_proj_title	char 60																	
cssprrdte_miss_area	char 6						*	*		*				*	*			

FILE defcontrol

This is the deficiency control file. Only deficiencies entered into this file will be printed in the deficiency reports. Types are: 1-Primary, 2-Related, 3-Non Materiel, 4-Health Services.

FIELDS	TYPES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
defcontrol_defic	integer	*	*															
defcontrol_type	integer	*	*															

FILE defdesc

This contains the text description of the deficiency. It is in 10 contiguous records of 60 characters each, printed 120 characters to the line. It may be a classified description beginnings with "(S)" or "(C)".

FIELDS	TYPES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
defdesc_defic	integer	*																
defdesc_text0	char 60	*																
(to defdesc_text9)																		

FILE defpro1

This is a temporary file used in the creation of the deficiency profile report. It contains RDTE funding totals for each deficiency represented by deficiencies in defcontrol. Data should not be entered into it directly. It is automatically regenerated by executing /u/plan/db/defpro.

FIELDS	TYPES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
defpro1_defic	integer	*																
f85_tb (to f92_tb)	long	*																
u85_tb (to u92_tb)	long	*																
f85_dev (to f92_dev)	long	*																
u85_dev (to u92_dev)	long	*																

FILE flag

This file contains information on flags and dollar amounts for workpackages. It is derived from the budget data base directly. The user should not have to enter data in here except to make spot corrections. Six flags are allowed with each being given a five character name and eight dollar figures for the workpackage funding data.

FIELDS	TYPES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
flag_cmd	char 12													*				
flag_cat	char 3													*				
flag_wkpkg	char 7													*				
flag_wkpkg_indx	composite													*				
flag_cmd, flag_cat, flag_wkpkg																		
flag1_n (to flag6_n)	char 5													*				
flag1_0 (to flag1_7)	long													*				
flag2_0 (to flag1_7)	long													*				
flag3_0 (to flag1_7)	long													*				
flag4_0 (to flag1_7)	long													*				
flag5_0 (to flag1_7)	long													*				
flag6_0 (to flag1_7)	long													*				

FILE lrpproc

This file contains the system procurement and related data from the LLRDAP. The title, proc_funded, and miss_name data are important. New records should be added when systems are added.

FIELDS	TYPES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
lrpproc_ssn_no	char 6	*	*	*	*		*		*	*	*	*	*	*		*		*
lrpproc_ssn_title	char 50		*	*	*		*		*	*	*	*	*	*		*		*
lrpproc_fydp_proc_1 (to lrpproc_fydp_proc_16)	float																	
lrpproc_fydp_qty_1 (to lrpproc_fydp_qty_16)	long																	
lrpproc_proc_funded_1 (to lrpproc_proc_funded_16)	float	*	*	*	*				*	*		*						
lrpproc_qty_funded_1 (to lrpproc_qty_funded_16)	long																	
lrpproc_proc_pri_1 (to lrpproc_proc_pri_16)	long																	
lrpproc_proc_unfunded_1 (to lrpproc_proc_unfunded_16)	float	*		*	*					*		*						
lrpproc_qty_unfunded_1 (to lrpproc_qty_unfunded_16)	long																	
lrpproc_pkg_1 (to lrpproc_pkg_4)	long																	
lrpproc_dev_code	char 3	*							*	*								
lrpproc_user_code	char 3	*							*	*								
lrpproc_miss_area	char 6																	
lrpproc_miss_name	char 6	*		*					*	*	*		*	*		*		*

FILE mergessn

This file relates a workpackage to up to 10 ssns. Multiple records are used for more ssns. Data should be entered into here. The shell /u/plan/db/buildps automatically transfers this data to pseudolink. The shell /u/plan/db/addmergessn will recreate mergessn from a complete pseudolink file, will remove duplicate entries, and will resort the ssns.

FIELDS	TYPES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
mergessn_cmd	char 12	*	*		*		*		*	*	*		*			*		
mergessn_cat	char 3	*	*		*		*		*	*	*		*			*		
mergessn_wkpkg	char 7	*	*		*		*		*	*	*		*			*		
mergessn_wkpkg_indx	composite	*	*		*		*		*	*	*		*			*		
mergessn_cmd, mergessn_cat, mergessn_wkpkg																		
mergessn_1 (to mergessn_10)	char 6	*	*		*		*		*	*	*		*			*		

FILE mis_area

This file is unknown. It is a relic from the original mat_plan that I haven't explored, but it looked interesting so I didn't delete it. It looks like it contains the mission area for each deficiency.

FIELDS	TYPES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
miss_defic	integer																	
miss_area_name	char 5																	
miss_area_no	integer																	
miss_area_da	char 4																	
miss_area_type	char 4																	

FILE pcomp0

This is a temporary file used in the priority methodology comparison reports. It is automatically regenerated by the shell */u/plan/db/pcomp*. No data is entered in here otherwise. It contains the scores for three competing rating schemes for each ssn.

FIELDS	TYPES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
pcomp0_ssn_no	char 6																	*
pcomp0_ndef	integer																	*
pcomp0_score0	float																	*
pcomp0_score1	float																	*
pcomp0_score2	float																	*

FILE pcomp1

This is a temporary file used in the priority methodology comparison reports. It is automatically regenerated by the shell */u/plan/db/pcomp*. No data is entered in here otherwise. It contains the score for scheme i and the rating sequence number that score would earn.

FIELDS	TYPES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
pcomp1_ssn_no	char 6																	*
pcomp1_score1	float																	*
pcomp1_seq_no	integer																	*

FILE pcomp2

This is a temporary file used in the priority methodology comparison reports. It is automatically regenerated by the shell /u/plan/db/pcomp. No data is entered in here otherwise. It contains the score for scheme 2 and the rating sequence number that score would earn.

FIELDS	TYPES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
pcomp2_ssn_no	char 6																	*
pcomp2_score2	float																	*
pcomp2_seq_no	integer																	*

FILE priori

This is a temporary file used in the CSS priority methodology ranking. It is automatically regenerated by the shell /u/plan/db/priority. No data is entered in here otherwise. It contains the score and number of deficiencies with each letter rating for each ssn in csscontrol.

FIELDS	TYPES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
priori_ssn_no	char 6														*	*		
priori_ndef	integer														*			
priori_na	integer														*			
priori_nb	integer														*			
priori_nc	integer														*			
priori_nd	integer														*			
priori_ne	integer														*			
priori_nx	integer														*			
priori_score	integer														*	*		

FILE prior2

This is a temporary file used in the CSS priority methodology ranking. It is automatically regenerated by the shell /u/plan/db/priority. No data is entered in here otherwise. It contains the score and number of systems, high system, and low system rating for each workpackage funded by projects in cssprrdte. System ratings are derived from the file prior1.

FIELDS	TYPES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
prior2_cmd	char 12																*	
prior2_cat	char 3																*	
prior2_wkpkg	char 7																*	
prior2_wkpkg_indx prior2_cmd, prior2_cat, prior2_wkpkg	composite																*	
prior2_nsys	integer																*	
prior2_hisys	integer																*	
prior2_losys	integer																*	
prior2_score	integer																*	

THE BDM CORPORATION

FILE proj

This is the project funding file. It is derived directly from the budget data base so no data need be entered in here directly.

FIELDS	TYPES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
proj_cmd	char 12						*	*							*			
proj_pe	char 5						*	*							*			
proj_no	char 4						*	*							*			
proj_indx	composite						*	*							*			
proj_cmd, proj_pe, proj_no																		
proj_title	char 60						*	*							*			
proj_guid_0 (to proj_guid_7)	long																	
proj_fund_0 (to proj_fund_7)	long						*											
proj_unfund_0 (to proj_unfund_7)	long						*											

FILE pseudolink

This file relates a single workpackage to a single ssn. It is automatically regenerated from the file mergessn by the shell /u/plan/db/buildps. No data should be entered in here directly.

FIELDS	TYPES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
pseudolink_cmd	char 12	*	*		*		*		*	*	*				*		*	
pseudolink_cat	char 3	*	*		*		*		*	*	*				*		*	
pseudolink_wkpkg	char 7	*	*		*		*		*	*	*				*		*	
pseudolink_wkpkg_indx	composite	*	*		*		*		*	*	*				*		*	
pseudolink_cmd, pseudolink_cat, pseudolink_wkpkg																		
pseudolink_ssn_no	char 6	*	*		*		*		*	*	*				*		*	

FILE rollup

This is the system rollup file, showing which ssns are subsidiary to a primary ssn. The shell /u/plan/buildassoc will automatically turn this data into the file assoc. Each rollup ssn can have up to 10 associated ssns on each record. Use multiple records if there are more than 10. This file can be rebuilt from a complete file assoc using the shell /u/plan/db/addrollup.

FIELDS	TYPES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
rollup_ssn_no	char 6								*	*								
rollup_ssn1	char 6								*	*								
(to rollup_ssn10)																		

FILE ssndef

This file relates systems to deficiencies. Up to 10 deficiencies may be described for each system with its contribution value. Use multiple records if there are more than 10. The deficiency source is currently unused but a "T" is entered for TRADOC. This data is transferred to the file ssnpri by the shell /u/plan/db/buildssnpri. The shell /u/plan/db/addssndef will rebuild this file from a complete ssnpri, eliminating duplicates and sorting the deficiencies.

FIELDS	TYPES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
ssndef_ssn_no	char 6	*	*	*					*	*		*				*	*	*
ssndef_def_source	char 1																	
ssndef_def_1	integer	*	*	*					*	*		*				*	*	*
(to ssndef_def_10)																		
ssndef_con_1	char 1			*	*				*	*		*				*	*	*
(to ssndef_con_10)																		

FILE ssndesc

This is the system description file. System data should be entered in here. Particular attention should be placed on the major_system (commodity) and the cmd fields.

FIELDS	TYPES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
ssndesc_ssn_no	char 6		*	*	*	*			*	*	*	*	*			*		*
ssndesc_text0 (to ssndesc_text_9)	char 60								*	*								
ssndesc_reqdoc_1	char 6								*	*								
ssndesc_reqdoc_2	char 6								*	*								
ssndesc_reqdoc_3	char 6								*	*								
ssndesc_type	char 1								*	*								
ssndesc_major_system	char 10				*	*	*		*	*								
ssndesc_cross_func	char 10								*	*								
ssndesc_amcmsc	char 10								*	*								
ssndesc_cmd	char 12		*	*	*	*			*	*	*	*	*			*		*

FILE ssnpri

This is the breakout of the ssndef file. It relates one system to one deficiency and its contribution value. No data should be entered in here. It is automatically created by the shell /u/plan/db/buildssnpri.

FIELDS	TYPES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
ssnpri_source	char 1																	
ssnpri_ssn_no	char 6	*	*													*	*	*
ssnpri_defic	integer	*	*													*	*	*
ssnpri_con_val	char 1		*													*	*	*

FILE sysprol

This is a temporary file used in the creation of the deficiency rollup report. It contains RDTE funding totals for each system included in csscontrol. Data should not be entered into it directly. It is automatically regenerated by executing the shell /u/plan/db/defroll.

FIELDS	TYPES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
sysprol_ssn_no	char 6		*															
s_f85_tb	long		*															
(to s_f92_tb)																		
s_u85_tb	long		*															
(to s_u92_tb)																		
s_f85_dev	long		*															
(to s_f92_dev)																		
s_u85_dev	long		*															
(to s_u92_dev)																		

FILE task

This is the task funding file. It is extracted from the budget data base. No data needs to be entered into here except for spot corrections.

FIELDS	TYPES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
task_cmd	char 12						*											
task_pe	char 5						*											
task_proj	char 4						*											
task_proj_indx task_cmd, task_pe, task_proj	composite						*											
task_no	char 9						*											
task_no_indx task_cmd, task_pe, task_proj, task_no	composite						*											
task_title	char 60						*											
task_guid_0 (to task_guid_7)	long																	
task_fund_0 (to task_fund_7)	long						*											
task_unfund_0 (to task_unfund_7)	long						*											

THE BDM CORPORATION

FILE wkdesc

This is the workpackage description file. It is extracted from the budget data base. No data needs to be entered into here.

FIELDS	TYPES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
wkdesc_cmd	char 12													*				
wkdesc_cat	char 3													*				
wkdesc_wkpkg	char 7													*				
wkdesc_wkpkg_indx	composite													*				
wkdesc_cmd, wkdesc_cat, wkdesc_wkpkg																		
wkdesc_text0 (to wkdesc_text9)	char 60													*				

FILE wkpkg

This is the workpackage funding data file. It is extracted from the budget data base. No data needs to be entered into here directly.

FIELDS	TYPES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
wkpkg_cmd	char 12	*	*	*	*	*	*	*	*	*	*			*		*		
wkpkg_cat	char 3	*	*	*	*	*	*	*	*	*	*			*		*		
wkpkg_subcat	char 4	*	*						*	*	*			*		*		
wkpkg_pe	char 5								*	*				*		*		
wkpkg_proj	char 4								*	*				*		*		
wkpkg_task	char 9								*	*				*		*		
wkpkg_no	char 7	*	*	*	*	*	*	*	*	*	*			*		*		
wkpkg_no_indx	composite	*	*	*	*	*	*	*	*	*	*			*		*		
wkpkg_cmd, wkpkg_cat, wkpkg_no																		
wkpkg_proj_indx	composite									*				*		*		
wkpkg_cmd, wkpkg_pe, wkpkg_proj																		

wkpkg_task_indx	composite																	
wkpkg_cmd,																		
wkpkg_pe,																		
wkpkg_proj,																		
wkpkg_task																		
wkpkg_pri	integer																*	
wkpkg_dcpri	integer																	
wkpkg_lab	char 12													*				
wkpkg_title	char 60								*					*			*	
wkpkg_budget_yr	integer																	
wkpkg_guid_yr0	long																	
(to wkpkg_guid_yr7)																		
wkpkg_fund_yr0	long	*	*		*		*		*	*	*			*			*	
(to wkpkg_fund_yr7)																		
wkpkg_unfund_yr0	long	*	*		*		*		*	*	*			*				
(to wkpkg_unfund_yr7)																		
wkpkg_proj_supp	char 4																	
wkpkg_trans_date	char 4													*				

FILE wks86

These are the 1986 workpackage statements extracted from the budget data base. No data needs to be entered into this file directly.

FIELDS	TYPES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
wks86_cmd	char 12													*				
wks86_cat	char 3													*				
wks86_wkpkg	char 7													*				
wks86_wkpkg_indx	composite													*				
wks86_cmd,																		
wks86_cat,																		
wks86_wkpkg																		
wks86_text0	char 60													*				
(to wks86_text9)																		

CHAPTER III
CSS MAMP REPORTS

This chapter presents the program text of each of the CSS MAMP Reports. They are included formally in this report to document their current status. It should be expected that they will continue to evolve as management information needs change.

A. DEFICIENCY REPORTS

1. Deficiency Profile Report Generator - Part 1

/u/plan/rpt.Linda/defprol

This report accumulates the RDTE funding for a range of deficiencies. For each deficiency, the tech base and development funded and unfunded amounts are computed for each year. These amounts are written in ASCII file format for loading into the data base file defprol. This program is called automatically by the shell /u/plan/db/defpro.

```
< Deficiency Profile Report Generator part 1.>

database mat_plan end

define
  param[1]     lowerlim       type integer
  param[2]     upperlim       type integer
  variable     vb             type character length 1

  variable     f85_tb         type long
  variable     u85_tb         type long
  variable     f85_dev        type long
  variable     u85_dev        type long

  variable     f86_tb         type long
  variable     u86_tb         type long
  variable     f86_dev        type long
  variable     u86_dev        type long

  variable     f87_tb         type long
  variable     u87_tb         type long
  variable     f87_dev        type long
  variable     u87_dev        type long

  variable     f88_tb         type long
  variable     u88_tb         type long
  variable     f88_dev        type long
  variable     u88_dev        type long

  variable     f89_tb         type long
  variable     u89_tb         type long
  variable     f89_dev        type long
  variable     u89_dev        type long
```

```
  variable    f90_tb          type long
  variable    u90_tb          type long
  variable    f90_dev         type long
  variable    u90_dev         type long

  variable    f91_tb          type long
  variable    u91_tb          type long
  variable    f91_dev         type long
  variable    u91_dev         type long

  variable    f92_tb          type long
  variable    u92_tb          type long
  variable    f92_dev         type long
  variable    u92_dev         type long

end

output
  top margin 0
  left margin 0
  page length 32000
  report to "defpro1.out"
end

read into a
  defcontrol
  where defcontrol_defic >= lowerlim and defcontrol_defic <= upperlim
end

read into b
  a
  csscontrol_ssn_no
  joining a.defcontrol_defic = ssnpri_defic
      and ssnpri_ssn_no = csscontrol_ssn_no
end
```

```
read  into c
  b
  wkpkg_no_indx wkpkg_subcat
  wkpkg_fund_yr0 wkpkg_fund_yr1 wkpkg_fund_yr2 wkpkg_fund_yr3
  wkpkg_fund_yr4 wkpkg_fund_yr5 wkpkg_fund_yr6 wkpkg_fund_yr7
  wkpkg_unfund_yr0 wkpkg_unfund_yr1 wkpkg_unfund_yr2 wkpkg_unfund_yr3
  wkpkg_unfund_yr4 wkpkg_unfund_yr5 wkpkg_unfund_yr6 wkpkg_unfund_yr7
  joining b.csscontrol_ssn_no = pseudolink_ssn_no
      and pseudolink_wkpkg_indx = wkpkg_no_indx
end

sort by defcontrol_defic wkpkg_cmd wkpkg_cat wkpkg_no end

format

before group of defcontrol_defic
  let f85_tb = 0
  let u85_tb = 0
  let f85_dev = 0
  let u85_dev = 0
  let f86_tb = 0
  let u86_tb = 0
  let f86_dev = 0
  let u86_dev = 0
  let f87_tb = 0
  let u87_tb = 0
  let f87_dev = 0
  let u87_dev = 0
  let f88_tb = 0
  let u88_tb = 0
  let f88_dev = 0
  let u88_dev = 0
  let f89_tb = 0
  let u89_tb = 0
  let f89_dev = 0
  let u89_dev = 0
```

```
        let f90_tb = 0
        let u90_tb = 0
        let f90_dev = 0
        let u90_dev = 0
        let f91_tb = 0
        let u91_tb = 0
        let f91_dev = 0
        let u91_dev = 0
        let f92_tb = 0
        let u92_tb = 0
        let f92_dev = 0
        let u92_dev = 0


    before group of wkpkg_no
      if wkpkg_subcat="6.1" or wkpkg_subcat="6.2" or wkpkg_subcat="6.3A" then begin
        let f85_tb = f85_tb + wkpkg_fund_yr0
        let f86_tb = f86_tb + wkpkg_fund_yr1
        let f87_tb = f87_tb + wkpkg_fund_yr2
        let f88_tb = f88_tb + wkpkg_fund_yr3
        let f89_tb = f89_tb + wkpkg_fund_yr4
        let f90_tb = f90_tb + wkpkg_fund_yr5
        let f91_tb = f91_tb + wkpkg_fund_yr6
        let f92_tb = f92_tb + wkpkg_fund_yr7
        let u85_tb = u85_tb + wkpkg_unfund_yr0
        let u86_tb = u86_tb + wkpkg_unfund_yr1
        let u87_tb = u87_tb + wkpkg_unfund_yr2
        let u88_tb = u88_tb + wkpkg_unfund_yr3
        let u89_tb = u89_tb + wkpkg_unfund_yr4
        let u90_tb = u90_tb + wkpkg_unfund_yr5
        let u91_tb = u91_tb + wkpkg_unfund_yr6
        let u92_tb = u92_tb + wkpkg_unfund_yr7
      end
```

```
      else if wkpkg_subcat="6.38" or wkpkg_subcat="6.4" or wkpkg_subcat="6.7" then begin
        let f85_dev = f85_dev + wkpkg_fund_yr0
        let f86_dev = f86_dev + wkpkg_fund_yr1
        let f87_dev = f87_dev + wkpkg_fund_yr2
        let f88_dev = f88_dev + wkpkg_fund_yr3
        let f89_dev = f89_dev + wkpkg_fund_yr4
        let f90_dev = f90_dev + wkpkg_fund_yr5
        let f91_dev = f91_dev + wkpkg_fund_yr6
        let f92_dev = f92_dev + wkpkg_fund_yr7
        let u85_dev = u85_dev + wkpkg_unfund_yr0
        let u86_dev = u86_dev + wkpkg_unfund_yr1
        let u87_dev = u87_dev + wkpkg_unfund_yr2
        let u88_dev = u88_dev + wkpkg_unfund_yr3
        let u89_dev = u89_dev + wkpkg_unfund_yr4
        let u90_dev = u90_dev + wkpkg_unfund_yr5
        let u91_dev = u91_dev + wkpkg_unfund_yr6
        let u92_dev = u92_dev + wkpkg_unfund_yr7
      end

    after group of defcontrol_defic
      let vb="|"
      print defcontrol_defic,vb;
      print f85_tb,vb,f86_tb,vb,f87_tb,vb,f88_tb,vb,
            f89_tb,vb,f90_tb,vb,f91_tb,vb,f92_tb,vb;
      print u85_tb,vb,u86_tb,vb,u87_tb,vb,u88_tb,vb,
            u89_tb,vb,u90_tb,vb,u91_tb,vb,u92_tb,vb;
      print f85_dev,vb,f86_dev,vb,f87_dev,vb,f88_dev,vb,
            f89_dev,vb,f90_dev,vb,f91_dev,vb,f92_dev,vb;
      print u85_dev,vb,u86_dev,vb,u87_dev,vb,u88_dev,vb,
            u89_dev,vb,u90_dev,vb,u91_dev,vb,u92_dev,vb

    end
```

2. Deficiency Profile Report Generator - Part 2

/u/plan/rpt.Linda/defpro2

This report generates the deficiency funding profile for all deficiencies in defcontrol. It accumulates the procurement funding amounts for the appropriate systems and combines that with the precomputed RDTE funding data stored in defprol. This program is called automatically by the shell /u/plan/db/defpro.

```
{ Deficiency Profile Report Generator }

database mat_plan end

define
  param[1]    pno           type integer
  variable    counter       type integer
  variable    tf            type float
  variable    i             type integer
  variable    x             type long
  variable    xdiv          type long
  variable    form1         type character length 10
  variable    form2         type character length 10
  variable    ufx           type character length 3
  variable    ufd           type character length 3
  variable    ufp           type character length 3
  variable    fx            type character length 3
  variable    fd            type character length 3
  variable    fp            type character length 3

  variable    f85_proc      type long
  variable    u85_proc      type long
  variable    f86_proc      type long
  variable    u86_proc      type long
  variable    f87_proc      type long
  variable    u87_proc      type long
  variable    f88_proc      type long
  variable    u88_proc      type long
  variable    f89_proc      type long
  variable    u89_proc      type long
  variable    f90_proc      type long
  variable    u90_proc      type long
  variable    f91_proc      type long
  variable    u91_proc      type long
  variable    f92_proc      type long
  variable    u92_proc      type long
```

```
    variable    f93_proc        type long
    variable    u93_proc        type long
    variable    f94_proc        type long
    variable    u94_proc        type long
    variable    f95_proc        type long
    variable    u95_proc        type long
    variable    f96_proc        type long
    variable    u96_proc        type long
    variable    f97_proc        type long
    variable    u97_proc        type long
    variable    f98_proc        type long
    variable    u98_proc        type long
    variable    f99_proc        type long
    variable    u99_proc        type long
    variable    f00_proc        type long
    variable    u00_proc        type .ong

end

output
  left margin 0
  right margin 132
  report to "defpro2.out"
end

read into a
  defcontrol
  defpro1
  joining defcontrol_defic = optional defpro1_defic
end
```

```
read into b
  a
  csscontrol_ssn_no csscontrol_type
  lrpproc_proc_funded_1 lrpproc_proc_funded_2 lrpproc_proc_funded_3
  lrpproc_proc_funded_4 lrpproc_proc_funded_5 lrpproc_proc_funded_6
  lrpproc_proc_funded_7 lrpproc_proc_funded_8
  lrpproc_proc_funded_9 lrpproc_proc_funded_10 lrpproc_proc_funded_11
  lrpproc_proc_funded_12 lrpproc_proc_funded_13 lrpproc_proc_funded_14
  lrpproc_proc_funded_15 lrpproc_proc_funded_16
  lrpproc_proc_unfunded_1 lrpproc_proc_unfunded_2 lrpproc_proc_unfunded_3
  lrpproc_proc_unfunded_4 lrpproc_proc_unfunded_5 lrpproc_proc_unfunded_6
  lrpproc_proc_unfunded_7 lrpproc_proc_unfunded_8
  lrpproc_proc_unfunded_9 lrpproc_proc_unfunded_10 lrpproc_proc_unfunded_11
  lrpproc_proc_unfunded_12 lrpproc_proc_unfunded_13 lrpproc_proc_unfunded_14
  lrpproc_proc_unfunded_15 lrpproc_proc_unfunded_16
  lrpproc_dev_code lrpproc_user_code lrpproc_miss_name
  joining a.defcontrol_defic = ssnpri_defic
      and ssnpri_ssn_no = csscontrol_ssn_no
      and ssnpri_ssn_no = optional lrpproc_ssn_no
end

sort by defcontrol_defic csscontrol_ssn_no end

format

page header
  print column 47,"****** C O N F I D E N T I A L  ******"
  skip 2 lines

page trailer
  skip 1 line
  print column 47,"****** C O N F I D E N T I A L  ******"
  skip 1 line
  print column 60,pno
  let pno = pno+1
```

```
before group of defcontrol_defic
  skip to top of page
  print 40 spaces,"FISCAL SUMMARY - DEFICIENCY ",defcontrol_defic using "<<<<<",
            6 spaces,"CSS  ";
  if defcontrol_type = 1 then print "Primary"
  else if defcontrol_type = 2 then print "Related"
  else if defcontrol_type = 3 then print "Non-Materiel"
  else if defcontrol_type = 4 then print "Health Service"
  else print " "
  skip 1 line

  let f85_proc = 0
  let u85_proc = 0
  let f86_proc = 0
  let u86_proc = 0
  let f87_proc = 0
  let u87_proc = 0
  let f88_proc = 0
  let u88_proc = 0
  let f89_proc = 0
  let u89_proc = 0
  let f90_proc = 0
  let u90_proc = 0
  let f91_proc = 0
  let u91_proc = 0
  let f92_proc = 0
  let u92_proc = 0
  let f93_proc = 0
  let u93_proc = 0
  let f94_proc = 0
  let u94_proc = 0
  let f95_proc = 0
  let u95_proc = 0
  let f96_proc = 0
  let u96_proc = 0
  let f97_proc = 0
  let u97_proc = 0
```

```
        let f98_proc = 0
        let u98_proc = 0
        let f99_proc = 0
        let u99_proc = 0
        let f00_proc = 0
        let u00_proc = 0

      after group of csscontrol_ssn_no
        let f85_proc = f85_proc+lrpproc_proc_funded_1*1000
        let u85_proc = u85_proc+lrpproc_proc_unfunded_1*1000
        let f86_proc = f86_proc+lrpproc_proc_funded_2*1000
        let u86_proc = u86_proc+lrpproc_proc_unfunded_2*1000
        let f87_proc = f87_proc+lrpproc_proc_funded_3*1000
        let u87_proc = u87_proc+lrpproc_proc_unfunded_3*1000
        let f88_proc = f88_proc+lrpproc_proc_funded_4*1000
        let u88_proc = u88_proc+lrpproc_proc_unfunded_4*1000
        let f89_proc = f89_proc+lrpproc_proc_funded_5*1000
        let u89_proc = u89_proc+lrpproc_proc_unfunded_5*1000
        let f90_proc = f90_proc+lrpproc_proc_funded_6*1000
        let u90_proc = u90_proc+lrpproc_proc_unfunded_6*1000
        let f91_proc = f91_proc+lrpproc_proc_funded_7*1000
        let u91_proc = u91_proc+lrpproc_proc_unfunded_7*1000
        let f92_proc = f92_proc+lrpproc_proc_funded_8*1000
        let u92_proc = u92_proc+lrpproc_proc_unfunded_8*1000
        let f93_proc = f93_proc+lrpproc_proc_funded_9*1000
        let u93_proc = u93_proc+lrpproc_proc_unfunded_9*1000
        let f94_proc = f94_proc+lrpproc_proc_funded_10*1000
        let u94_proc = u94_proc+lrpproc_proc_unfunded_10*1000
        let f95_proc = f95_proc+lrpproc_proc_funded_11*1000
        let u95_proc = u95_proc+lrpproc_proc_unfunded_11*1000
        let f96_proc = f96_proc+lrpproc_proc_funded_12*1000
        let u96_proc = u96_proc+lrpproc_proc_unfunded_12*1000
        let f97_proc = f97_proc+lrpproc_proc_funded_13*1000
        let u97_proc = u97_proc+lrpproc_proc_unfunded_13*1000
        let f98_proc = f98_proc+lrpproc_proc_funded_14*1000
        let u98_proc = u98_proc+lrpproc_proc_unfunded_14*1000
```

```
    let f99_proc = f99_proc+lrpproc_proc_funded_15*1000
    let u99_proc = u99_proc+lrpproc_proc_unfunded_15*1000
    let f00_proc = f00_proc+lrpproc_proc_funded_16*1000
    let u00_proc = u00_proc+lrpproc_proc_unfunded_16*1000

after group of defcontrol_defic
    let form1 = "######### "
    let form2 = "(((((((((#)"
    let ufx = "X--"
    let ufd = "D--"
    let ufp = "P--"
    let fx = "XXX"
    let fd = "DDD"
    let fp = "PPP"
    let tf = 0
    if f85_tb+u85_tb > tf then let tf = f85_tb+u85_tb
    if f85_dev+u85_dev > tf then let tf = f85_dev+u85_dev
    if (f85_proc+u85_proc)/10 > tf then let tf = (f85_proc+u85_proc)/10

    if f86_tb+u86_tb > tf then let tf = f86_tb+u86_tb
    if f86_dev+u86_dev > tf then let tf = f86_dev+u86_dev
    if (f86_proc+u86_proc)/10 > tf then let tf = (f86_proc+u86_proc)/10

    if f87_tb+u87_tb > tf then let tf = f87_tb+u87_tb
    if f87_dev+u87_dev > tf then let tf = f87_dev+u87_dev
    if (f87_proc+u87_proc)/10 > tf then let tf = (f87_proc+u87_proc)/10

    if f88_tb+u88_tb > tf then let tf = f88_tb+u88_tb
    if f88_dev+u88_dev > tf then let tf = f88_dev+u88_dev
    if (f88_proc+u88_proc)/10 > tf then let tf = (f88_proc+u88_proc)/10

    if f89_tb+u89_tb > tf then let tf = f89_tb+u89_tb
    if f89_dev+u89_dev > tf then let tf = f89_dev+u89_dev
    if (f89_proc+u89_proc)/10 > tf then let tf = (f89_proc+u89_proc)/10

    if f90_tb+u90_tb > tf then let tf = f90_tb+u90_tb
    if f90_dev+u90_dev > tf then let tf = f90_dev+u90_dev
    if (f90_proc+u90_proc)/10 > tf then let tf = (f90_proc+u90_proc)/10
```

```
if f91_tb+u91_tb > tf then let tf = f91_tb+u91_tb
if f91_dev+u91_dev > tf then let tf = f91_dev+u91_dev
if (f91_proc+u91_proc)/10 > tf then let tf = (f91_proc+u91_proc)/10

if f92_tb+u92_tb > tf then let tf = f92_tb+u92_tb
if f92_dev+u92_dev > tf then let tf = f92_dev+u92_dev
if (f92_proc+u92_proc)/10 > tf then let tf = (f92_proc+u92_proc)/10

if (f93_proc+u93_proc)/10 > tf then let tf = (f93_proc+u93_proc)/10
if (f94_proc+u94_proc)/10 > tf then let tf = (f94_proc+u94_proc)/10
if (f95_proc+u95_proc)/10 > tf then let tf = (f95_proc+u95_proc)/10
if (f96_proc+u96_proc)/10 > tf then let tf = (f96_proc+u96_proc)/10
if (f97_proc+u97_proc)/10 > tf then let tf = (f97_proc+u97_proc)/10
if (f98_proc+u98_proc)/10 > tf then let tf = (f98_proc+u98_proc)/10
if (f99_proc+u99_proc)/10 > tf then let tf = (f99_proc+u99_proc)/10
if (f00_proc+u00_proc)/10 > tf then let tf = (f00_proc+u00_proc)/10

let tf = tf*0.8
skip 3 lines
let x = 150000
if tf>x then let x = 300000
if tf>x then let x = 750000
if tf>x then let x = 1500000
let xdiv = x/30
for i = 1 to 30 do begin
  if i=1 or i=11 or i=21 then print 4 spaces, x/1000 using "######";
  if i=15 then print "RDTE ($ 1M)";
  if i=17 then print "PROC ($10M)";
  print column 13,"!";
  if f85_tb + u85_tb >= x then begin
    if f85_tb >= x then print fx; else print ufx; end
    else print "   ";
  if f85_dev + u85_dev >= x then begin
    if f85_dev >= x then print fd; else print ufd; end
    else print "   ";
```

```
if f85_proc + u85_proc >= x*10 then begin
  if f85_proc >= x*10 then print fp; else print ufp; end
  else print "   ";
print 1 space;
if f86_tb + u86_tb >= x then begin
  if f86_tb >= x then print fx; else print ufx; end
  else print "   ";
if f86_dev + u86_dev >= x then begin
  if f86_dev >= x then print fd; else print ufd; end
  else print "   ";
if f86_proc + u86_proc >= x*10 then begin
  if f86_proc >= x*10 then print fp; else print ufp; end
  else print "   ";
print 1 space;
if f87_tb + u87_tb >= x then begin
  if f87_tb >= x then print fx; else print ufx; end
  else print "   ";
if f87_dev + u87_dev >= x then begin
  if f87_dev >= x then print fd; else print ufd; end
  else print "   ";
if f87_proc + u87_proc >= x*10 then begin
  if f87_proc >= x*10 then print fp; else print ufp; end
  else print "   ";
print 1 space;
if f88_tb + u88_tb >= x then begin
  if f88_tb >= x then print fx; else print ufx; end
  else print "   ";
if f88_dev + u88_dev >= x then begin
  if f88_dev >= x then print fd; else print ufd; end
  else print "   ";
if f88_proc + u88_proc >= x*10 then begin
  if f88_proc >= x*10 then print fp; else print ufp; end
  else print "   ";
print 1 space;
if f89_tb + u89_tb >= x then begin
  if f89_tb >= x then print fx; else print ufx; end
  else print "   ";
```

```
if f89_dev + u89_dev >= x then begin
  if f89_dev >= x then print fd; else print ufd; end
  else print "   ";
if f89_proc + u89_proc >= x*10 then begin
  if f89_proc >= x*10 then print fp; else print ufp; end
  else print "   ";
print 1 space;
if f90_tb + u90_tb >= x then begin
  if f90_tb >= x then print fx; else print ufx; end
  else print "   ";
if f90_dev + u90_dev >= x then begin
  if f90_dev >= x then print fd; else print ufd; end
  else print "   ";
if f90_proc + u90_proc >= x*10 then begin
  if f90_proc >= x*10 then print fp; else print ufp; end
  else print "   ";
print 1 space;
if f91_tb + u91_tb >= x then begin
  if f91_tb >= x then print fx; else print ufx; end
  else print "   ";
if f91_dev + u91_dev >= x then begin
  if f91_dev >= x then print fd; else print ufd; end
  else print "   ";
if f91_proc + u91_proc >= x*10 then begin
  if f91_proc >= x*10 then print fp; else print ufp; end
  else print "   ";
print 1 space;
if f92_tb + u92_tb >= x then begin
  if f92_tb >= x then print fx; else print ufx; end
  else print "   ";
if f92_dev + u92_dev >= x then begin
  if f92_dev >= x then print fd; else print ufd; end
  else print "   ";
if f92_proc + u92_proc >= x*10 then begin
  if f92_proc >= x*10 then print fp; else print ufp; end
  else print "   ";
print 2 spaces;
```

```
    if f93_proc + u93_proc >= x*10 then begin
      if f93_proc >= x*10 then print fp; else print ufp; end
      else print "   ";
    print 2 spaces;
    if f94_proc + u94_proc >= x*10 then begin
      if f94_proc >= x*10 then print fp; else print ufp; end
      else print "   ";
    print 2 spaces;
    if f95_proc + u95_proc >= x*10 then begin
      if f95_proc >= x*10 then print fp; else print ufp; end
      else print "   ";
    print 2 spaces;
    if f96_proc + u96_proc >= x*10 then begin
      if f96_proc >= x*10 then print fp; else print ufp; end
      else print "   ";
    print 2 spaces;
    if f97_proc + u97_proc >= x*10 then begin
      if f97_proc >= x*10 then print fp; else print ufp; end
      else print "   ";
    print 2 spaces;
    if f98_proc + u98_proc >= x*10 then begin
      if f98_proc >= x*10 then print fp; else print ufp; end
      else print "   ";
    print 2 spaces;
    if f99_proc + u99_proc >= x*10 then begin
      if f99_proc >= x*10 then print fp; else print ufp; end
      else print "   ";
    print 2 spaces;
    if f00_proc + u00_proc >= x*10 then begin
      if f00_proc >= x*10 then print fp; else print ufp; end
      else print "   ";
    print ""
    let x = x-xdiv
  end
  print 13 spaces;
  for i = 14 to 132 do print "-";
  print ""
```

```
print 16 spaces,"1985",6 spaces,"1986",6 spaces,"1987",6 spaces,
   "1988",6 spaces,"1989",6 spaces,"1990",6 spaces,"1991",6 spaces,"1992",
   "    | 93    94    95    96    97    98    99    00"
print column 94,"|"
print "Tech Base    ",f85_tb using form1,f86_tb using form1,
                      f87_tb using form1,f88_tb using form1,
                      f89_tb using form1,f90_tb using form1,
                      f91_tb using form1,f92_tb using form1,column 94,"|"
print "  (",fx,"/",ufx,") ",
                  -u85_tb using form2,-u86_tb using form2,
                  -u87_tb using form2,-u88_tb using form2,
                  -u89_tb using form2,-u90_tb using form2,
                  -u91_tb using form2,-u92_tb using form2,column 94,"|"
print column 94,"|"
print "Development ",f85_dev using form1,f86_dev using form1,
                      f87_dev using form1,f88_dev using form1,
                      f89_dev using form1,f90_dev using form1,
                      f91_dev using form1,f92_dev using form1,column 94,"|"
print "  (",fd,"/",ufd,") ",
                  -u85_dev using form2,-u86_dev using form2,
                  -u87_dev using form2,-u88_dev using form2,
                  -u89_dev using form2,-u90_dev using form2,
                  -u91_dev using form2,-u92_dev using form2,column 94,"|"
print column 94,"|"
print "Procurement ",f85_proc using form1,f86_proc using form1,
                      f87_proc using form1,f88_proc using form1,
                      f89_proc using form1,f90_proc using form1,
                      f91_proc using form1,f92_proc using form1,
                      column 94,"|      See Out Year Procurement"
print "  (",fp,"/",ufp,") ",
                  -u85_proc using form2,-u86_proc using form2,
                  -u87_proc using form2,-u88_proc using form2,
                  -u89_proc using form2,-u90_proc using form2,
                  -u91_proc using form2,-u92_proc using form2,
                  column 94,"|      Funding Levels Below"
print column 94,"|"
```

```
        print 54 spaces;
        for i=55 to 132 do print "-";
        print ""
        print 56 spaces,"1993",6 spaces,"1994",6 spaces,"1995",6 spaces,"1996",
              6 spaces,"1997",6 spaces,"1998",6 spaces,"1999",6 spaces,"2000"
        skip 1 line
        print 29 spaces,"Procurement (Out Years)",
                              f93_proc using form1,f94_proc using form1,
                              f95_proc using form1,f96_proc using form1,
                              f97_proc using form1,f98_proc using form1,
                              f99_proc using form1,f00_proc using form1
        print 52 spaces,-u93_proc using form2,-u94_proc using form2,
                        -u95_proc using form2,-u96_proc using form2,
                        -u97_proc using form2,-u98_proc using form2,
                        -u99_proc using form2,-u00_proc using form2

    end
```

3. Deficiency Summary Report Generator - Part 1

/u/plan/rpt.Linda/sysprol

This program accumulates RDTE funding for systems in csscontrol. For each system, the tech base and development funded and unfunded amounts are accumulated. The resulting values are output in ASCII format for loading into the sysprol file of the data base. This program is called automatically by the shell /u/plan/db/defroll.

```
database mat_plan end

define
  variable    vb              type character length 1

  variable    f85_tb          type long
  variable    u85_tb          type long
  variable    f85_dev         type long
  variable    u85_dev         type long

  variable    f86_tb          type long
  variable    u86_tb          type long
  variable    f86_dev         type long
  variable    u86_dev         type long

  variable    f87_tb          type long
  variable    u87_tb          type long
  variable    f87_dev         type long
  variable    u87_dev         type long

  variable    f88_tb          type long
  variable    u88_tb          type long
  variable    f88_dev         type long
  variable    u88_dev         type long

  variable    f89_tb          type long
  variable    u89_tb          type long
  variable    f89_dev         type long
  variable    u89_dev         type long

  variable    f90_tb          type long
  variable    u90_tb          type long
  variable    f90_dev         type long
  variable    u90_dev         type long
```

```
  variable    f91_tb          type long
  variable    u91_tb          type long
  variable    f91_dev         type long
  variable    u91_dev         type long

  variable    f92_tb          type long
  variable    u92_tb          type long
  variable    f92_dev         type long
  variable    u92_dev         type long

end

output
  top margin 0
  left margin 0
  page length 32000
  report to "sysprol.out"
end

read into a
  csscontrol_ssn_no
  wkpkg_no_indx wkpkg_subcat
  wkpkg_fund_yr0 wkpkg_fund_yr1 wkpkg_fund_yr2 wkpkg_fund_yr3
  wkpkg_fund_yr4 wkpkg_fund_yr5 wkpkg_fund_yr6 wkpkg_fund_yr7
  wkpkg_unfund_yr0 wkpkg_unfund_yr1 wkpkg_unfund_yr2 wkpkg_unfund_yr3
  wkpkg_unfund_yr4 wkpkg_unfund_yr5 wkpkg_unfund_yr6 wkpkg_unfund_yr7
  joining csscontrol_ssn_no = pseudolink_ssn_no
      and pseudolink_wkpkg_indx = wkpkg_no_indx
end

sort by csscontrol_ssn_no wkpkg_cmd wkpkg_cat wkpkg_no end

format

before group of csscontrol_ssn_no
  let f85_tb = 0
  let u85_tb = 0
  let f85_dev = 0
  let u85_dev = 0
```

```
        let f86_tb = 0
        let u86_tb = 0
        let f86_dev = 0
        let u86_dev = 0
        let f87_tb = 0
        let u87_tb = 0
        let f87_dev = 0
        let u87_dev = 0
        let f88_tb = 0
        let u88_tb = 0
        let f88_dev = 0
        let u88_dev = 0
        let f89_tb = 0
        let u89_tb = 0
        let f89_dev = 0
        let u89_dev = 0
        let f90_tb = 0
        let u90_tb = 0
        let f90_dev = 0
        let u90_dev = 0
        let f91_tb = 0
        let u91_tb = 0
        let f91_dev = 0
        let u91_dev = 0
        let f92_tb = 0
        let u92_tb = 0
        let f92_dev = 0
        let u92_dev = 0


before group of wkpkg_no
  if wkpkg_subcat="6.1" or wkpkg_subcat="6.2" or wkpkg_subcat="6.3A" then begin
    let f85_tb = f85_tb + wkpkg_fund_yr0
    let f86_tb = f86_tb + wkpkg_fund_yr1
    let f87_tb = f87_tb + wkpkg_fund_yr2
    let f88_tb = f88_tb + wkpkg_fund_yr3
    let f89_tb = f89_tb + wkpkg_fund_yr4
    let f90_tb = f90_tb + wkpkg_fund_yr5
    let f91_tb = f91_tb + wkpkg_fund_yr6
    let f92_tb = f92_tb + wkpkg_fund_yr7
```

```
            let u85_tb = u85_tb + wkpkg_unfund_yr0
            let u86_tb = u86_tb + wkpkg_unfund_yr1
            let u87_tb = u87_tb + wkpkg_unfund_yr2
            let u88_tb = u88_tb + wkpkg_unfund_yr3
            let u89_tb = u89_tb + wkpkg_unfund_yr4
            let u90_tb = u90_tb + wkpkg_unfund_yr5
            let u91_tb = u91_tb + wkpkg_unfund_yr6
            let u92_tb = u92_tb + wkpkg_unfund_yr7
          end
          else if wkpkg_subcat="6.3B" or wkpkg_subcat="6.4" or wkpkg_subcat="6.7" then begin
            let f85_dev = f85_dev + wkpkg_fund_yr0
            let f86_dev = f86_dev + wkpkg_fund_yr1
            let f87_dev = f87_dev + wkpkg_fund_yr2
            let f88_dev = f88_dev + wkpkg_fund_yr3
            let f89_dev = f89_dev + wkpkg_fund_yr4
            let f90_dev = f90_dev + wkpkg_fund_yr5
            let f91_dev = f91_dev + wkpkg_fund_yr6
            let f92_dev = f92_dev + wkpkg_fund_yr7
            let u85_dev = u85_dev + wkpkg_unfund_yr0
            let u86_dev = u86_dev + wkpkg_unfund_yr1
            let u87_dev = u87_dev + wkpkg_unfund_yr2
            let u88_dev = u88_dev + wkpkg_unfund_yr3
            let u89_dev = u89_dev + wkpkg_unfund_yr4
            let u90_dev = u90_dev + wkpkg_unfund_yr5
            let u91_dev = u91_dev + wkpkg_unfund_yr6
            let u92_dev = u92_dev + wkpkg_unfund_yr7
          end

        after group of csscontrol_ssn_no
          let vb="|"
          print csscontrol_ssn_no,vb;
          print f85_tb,vb,f86_tb,vb,f87_tb,vb,f88_tb,vb,
                f89_tb,vb,f90_tb,vb,f91_tb,vb,f92_tb,vb;
          print u85_tb,vb,u86_tb,vb,u87_tb,vb,u88_tb,vb,
                u89_tb,vb,u90_tb,vb,u91_tb,vb,u92_tb,vb;
          print f85_dev,vb,f86_dev,vb,f87_dev,vb,f88_dev,vb,
                f89_dev,vb,f90_dev,vb,f91_dev,vb,f92_dev,vb;
          print u85_dev,vb,u86_dev,vb,u87_dev,vb,u88_dev,vb,
                u89_dev,vb,u90_dev,vb,u91_dev,vb,u92_dev,vb

        end
```

4. Deficiency Summary Report Generator - Part 2

/u/plan/rpt.Linda/defrolltry

This report produces the printed deficiency rollup report. It is a variation on the program defroll, but instead accepts system RDTE funding from the file sysprol. This results in a net five-fold improvement in the running speed of this report. This program is called automatically by the shell /u/plan/db/defroll.

```
{Deficiency Summary}

database mat_plan end

define
  variable    linesleft      type integer
  variable    counter        type integer
  variable    total_fund     type integer
  variable    pagebreak      type integer
  variable    pagetrail      type character length 1
  variable    stars          type character length 4
  variable    evalcount      type integer
  variable    firstfl        type integer
  param[1]    pno            type integer
end

output
  left margin 0
  right margin 132
  report to "defroll.out"
end

read into b
  csscontrol_type
  defcontrol_type
  ssnpri_defic ssnpri_ssn_no ssnpri_con_val
  joining defcontrol_defic = ssnpri_defic
      and csscontrol_ssn_no = ssnpri_ssn_no
end

read into c
  ssndef_def_2
  unique ssndef_ssn_no
  joining b.ssnpri_ssn_no = ssndef_ssn_no
end
```

```
read into a
  b
  c.ssndef_def_2
  ssndesc_cmd
  lrpproc_ssn_title lrpproc_miss_name
  lrpproc_proc_funded_1 lrpproc_proc_funded_2 lrpproc_proc_funded_3
  lrpproc_proc_funded_4 lrpproc_proc_funded_5 lrpproc_proc_funded_6
  lrpproc_proc_funded_7 lrpproc_proc_funded_8 lrpproc_proc_funded_9
  lrpproc_proc_funded_10 lrpproc_proc_funded_11 lrpproc_proc_funded_12
  lrpproc_proc_funded_13 lrpproc_proc_funded_14 lrpproc_proc_funded_15
  lrpproc_proc_funded_16
  s_f85_tb s_f86_tb s_f87_tb s_f88_tb
  s_f89_tb s_f90_tb s_f91_tb s_f92_tb
  s_f85_dev s_f86_dev s_f87_dev s_f88_dev
  s_f89_dev s_f90_dev s_f91_dev s_f92_dev
  defdesc_text0 defdesc_text1 defdesc_text2 defdesc_text3 defdesc_text4
  defdesc_text5 defdesc_text6 defdesc_text7 defdesc_text8 defdesc_text9
  joining b.ssnpri_ssn_no = c.ssndef_ssn_no
      and b.ssnpri_ssn_no = optional ssndesc_ssn_no
      and b.ssnpri_ssn_no = optional lrpproc_ssn_no
      and b.ssnpri_ssn_no = optional sysprol_ssn_no
      and b.ssnpri_defic = optional defdesc_defic
end

sort by ssnpri_defic csscontrol_type ssnpri_con_val ssnpri_ssn_no end

format

page header
  if defdesc_text0[2,2]="S" then print column 54,"******  S E C R E T  ******"
  else print column 47,"******  C O N F I D E N T I A L  ******"
  let pagetrail=defdesc_text0[2,2]
  if pagebreak=1 then begin
    skip 1 line
    print "TRADOC DEFICIENCY:",ssnpri_defic;
    print "     (continued)";
    print column 50, "CSS  ";
```

```
        if defcontrol_type = 1 then print "Primary"
        else if defcontrol_type = 2 then print "Related"
        else if defcontrol_type = 3 then print "Non-Materiel"
        else if defcontrol_type = 4 then print "Health Service"
        else print " "
        skip 1 line
        print column 61," ----- ----------------------------------------------------------------"
        print column 61,"| CON | 85  86  87  88  89  90  91  92  93  94  95  96  97  98  99
        print column 61,"|-----|----------------------------------------------------------------"
      end
      else begin
        skip 4 lines
        print "TRADOC DEFICIENCY:",ssnpri_defic;
        print column 50, "CSS  ";
        if defcontrol_type = 1 then print "Primary"
        else if defcontrol_type = 2 then print "Related"
        else if defcontrol_type = 3 then print "Non-Materiel"
        else if defcontrol_type = 4 then print "Health Service"
        else print " "
        skip 1 line
      end
      let linesleft = 48

    before group of ssnpri_defic
      let pagebreak = 0
      let firstfl = 0
      skip to top of page
      print "DESCRIPTION:",column 13,defdesc_text0 , defdesc_text1
      print column 13, defdesc_text2 , defdesc_text3
      print column 13, defdesc_text4 , defdesc_text5
      print column 13, defdesc_text6 , defdesc_text7
      print column 13, defdesc_text8 , defdesc_text9
      skip 2 lines
      print column 61," ----- ----------------------------------------------------------------"
      print column 61,"| CON | 85  86  87  88  89  90  91  92  93  94  95  96  97  98  99  00 |"
      print column 61,"|-----|----------------------------------------------------------------|"
      let linesleft = linesleft-10
```

```
before group of csscontrol_type
  if linesleft<8 then begin
    let pagebreak = 1
    if linesleft > 1 then print column 61,"!",column 67,"!",column 132,"!"
    print column 61," ----- ----------------------------------------------------------------
    skip to top of page
  end
  if firstfl = 1 then begin
    print column 61,"!",column 67,"!",column 132,"!"
    print column 61,"!",column 67,"!",column 132,"!"
  end
  else let firstfl = 1
  let counter=0
  if csscontrol_type = 0 then begin
    print "Base Case Systems:",column 61,"!",column 67,"!",column 132,"!"
    print "------------------"; end
  else if csscontrol_type = 1 then begin
    print "Type Classified:",column 61,"!",column 67,"!",column 132,"!"
    print "----------------"; end
  else if csscontrol_type = 2 then begin
    print "Development Systems:",column 61,"!",column 67,"!",column 132,"!"
    print "--------------------"; end
  else if csscontrol_type = 3 then begin
    print "PIPs:",column 61,"!",column 67,"!",column 132,"!"
    print "-----"; end
  else if csscontrol_type = 4 then begin
    print "Technology Demonstrators:",column 61,"!",column 67,"!",column 132,"!"
      print "-------------------------"; end
  else if csscontrol_type = 5 then begin
    print "Broad Base Tech Area:",column 61,"!",column 67,"!",column 132,"!"
    print "---------------------"; end
  else if csscontrol_type = 6 then begin
    print "Requirement Above Corps",column 61,"!",column 67,"!",column 132,"!"
    print "-----------------------";
  end
  print column 61,"!",column 67,"!",column 132,"!"
  let linesleft = linesleft-4
```

```
before group of ssnpri_ssn_no
  if linesleft<4 then begin
    let pagebreak=1
    if linesleft > 1 then print column 61,"!",column 67,"!",column 132,"!"
    print column 61," ----- ----------------------------------------------------------------
    skip to top of page
  end
  let counter=counter+1
  print column 61,"!",column 67,"!",column 132,"!"
  print counter,". ",lrpproc_ssn_title[1,51], column 61,"!  ",
        ssnpri_con_val,column 67,"!";
  let total_fund=lrpproc_proc_funded_1+lrpproc_proc_funded_2+
                 lrpproc_proc_funded_3+lrpproc_proc_funded_4+
                 lrpproc_proc_funded_5+ lrpproc_proc_funded_6+
                 lrpproc_proc_funded_7 + lrpproc_proc_funded_8+
                 lrpproc_proc_funded_9+ lrpproc_proc_funded_10+
                 lrpproc_proc_funded_11+ lrpproc_proc_funded_12+
                 lrpproc_proc_funded_13+ lrpproc_proc_funded_14+
                 lrpproc_proc_funded_15+ lrpproc_proc_funded_16
  if ssnpri_ssn_no matches "4#" then print column 93,"<STOCK FUNDED>",column 132,"!"
  else if total_fund = 0  then print column 93,"<NOT SCHEDULED>",column 132,"!"
  else begin
    if ssndef_def_2 = " " then let stars="****" else let stars="mmmm"
    if lrpproc_proc_funded_1 > 0 then print stars; else print "    ";
    if lrpproc_proc_funded_2 > 0 then print stars; else print "    ";
    if lrpproc_proc_funded_3 > 0 then print stars; else print "    ";
    if lrpproc_proc_funded_4 > 0 then print stars; else print "    ";
    if lrpproc_proc_funded_5 > 0 then print stars; else print "    ";
    if lrpproc_proc_funded_6 > 0 then print stars; else print "    ";
    if lrpproc_proc_funded_7 > 0 then print stars; else print "    ";
    if lrpproc_proc_funded_8 > 0 then print stars; else print "    ";
    if lrpproc_proc_funded_9 > 0 then print stars; else print "    ";
    if lrpproc_proc_funded_10 > 0 then print stars; else print "    ";
    if lrpproc_proc_funded_11 > 0 then print stars; else print "    ";
    if lrpproc_proc_funded_12 > 0 then print stars; else print "    ";
    if lrpproc_proc_funded_13 > 0 then print stars; else print "    ";
```

```
      if lrpproc_proc_funded_14 > 0 then print stars; else print "     ";
      if lrpproc_proc_funded_15 > 0 then print stars; else print "     ";
      if lrpproc_proc_funded_16 > 0 then print stars,"!"  else print "     !"
    end
    print column 11,"ssn number: ",ssnpri_ssn_no,column 30,"command: ",
        ssndesc_cmd," - ",lrpproc_miss_name,column 61,"!",column 67,"!";
    let linesleft = linesleft-3

  after group of ssnpri_ssn_no
    let evalcount = 0
    if s_f85_tb+s_f85_dev > 0 then print"++++"; else print "     ";
    if s_f86_tb+s_f86_dev > 0 then print"++++"; else print "     ";
    if s_f87_tb+s_f87_dev > 0 then print"++++"; else print "     ";
    if s_f88_tb+s_f88_dev > 0 then print"++++"; else print "     ";
    if s_f89_tb+s_f89_dev > 0 then print"++++"; else print "     ";
    if s_f90_tb+s_f90_dev > 0 then print"++++"; else print "     ";
    if s_f91_tb+s_f91_dev > 0 then print"++++"; else print "     ";
    if s_f92_tb+s_f92_dev > 0 then print"++++"; else print "     ";
    print column 132,"!"

  after group of ssnpri_defic
    let pagebreak = 0
    if linesleft>1 then print column 61,"!",column 67,"!",column 132,"!"
    print column 61," ----- ----------------------------------------------------------------------

  page trailer
    skip 1 line
    print "Legend:";
    if pagetrail = "S" then print column 54, "******  S E C R E T  ******"
    else print column 47,"******  C O N F I D E N T I A L  ******"
    print " **** - System Production Funding"
    print " mmmm - Multi-def. System Production Funding"
    print " ++++ - Work Package RDTE Funding",column 60,pno
    let pno = pno+1

  end
```

B. COMMODITY REPORTS

1. Commodity Summary

/u/plan/rpt.Linda/commod

This report sorts the systems in csscontrol by command and commodity line to produce a report which summarizes the activities ongoing in each major functional area. System procurement funding and BDP deficiencies are also included.

```
{ Command to Commodity Line to System to Funding Summary }

database mat_plan end

define
  variable brk   type integer
  variable tot   type integer
  variable cnt   type integer
  param[1] pno   type integer
end

output
  left margin 0
  right margin 132
  report to "commod.out"
end

read into a
  csscontrol_ssn_no
  ssndesc_cmd ssndesc_major_system
  ssndef
  lrpproc_ssn_title lrpproc_miss_name
  lrpproc_proc_funded_1 lrpproc_proc_funded_2 lrpproc_proc_funded_3
  lrpproc_proc_funded_4 lrpproc_proc_funded_5 lrpproc_proc_funded_6
  lrpproc_proc_funded_7 lrpproc_proc_funded_8 lrpproc_proc_funded_9
  lrpproc_proc_funded_10 lrpproc_proc_funded_11 lrpproc_proc_funded_12
  lrpproc_proc_funded_13 lrpproc_proc_funded_14 lrpproc_proc_funded_15
  lrpproc_proc_funded_16
  lrpproc_proc_unfunded_1 lrpproc_proc_unfunded_2 lrpproc_proc_unfunded_3
  lrpproc_proc_unfunded_4 lrpproc_proc_unfunded_5 lrpproc_proc_unfunded_6
  lrpproc_proc_unfunded_7 lrpproc_proc_unfunded_8 lrpproc_proc_unfunded_9
  lrpproc_proc_unfunded_10 lrpproc_proc_unfunded_11 lrpproc_proc_unfunded_12
  lrpproc_proc_unfunded_13 lrpproc_proc_unfunded_14 lrpproc_proc_unfunded_15
  lrpproc_proc_unfunded_16
  joining csscontrol_ssn_no = optional ssndesc_ssn_no
      and csscontrol_ssn_no = optional ssndef_ssn_no
      and csscontrol_ssn_no = optional lrpproc_ssn_no
end
```

```
sort by ssndesc_cmd ssndesc_major_system csscontrol_ssn_no end

format

page header
  print column 47,"*****  C O N F I D E N T I A L  *****"
  skip 2 lines
  print column 44;
  if ssndesc_major_system <> " " then print ssndesc_major_system clipped;
                                 else print "__________";
  print " COMMODITY LINE SUMMARY FOR ";
  if ssndesc_cmd <> " " then print ssndesc_cmd else print "___________"
  skip 2 lines
  print column 90,"PROCUREMENT SCHEDULE"
  print " ------------------------------------------------------------------",
        "------------------------------------ "
  print "|  SSN",10 spaces,"TITLE/DEFICIENCIES",column 61,"DA MA",column 67,"|",
        " 85  86  87  88  89  90  91  92  93  94  95  96  97  98  99  00 |"
  print "|-----------------------------------------------------------------",
        "-----------------------------------|"
  let brk = 0
  let cnt = 0

page trailer
  print "Legend:",column 47,"*****  C O N F I D E N T I A L  *****"
  print "   **** - Funded Procurement"
  print "   *-*- - Partial Funded"
  print "   ---- - Unfunded",column 62,pno
  let pno = pno+1

before group of ssndesc_cmd
  skip to top of page

before group of ssndesc_major_system
  skip to top of page
```

```
after group of ssndesc_major_system
  if brk = 0 then begin
    print " ------------------------------------------------------------------",
          "------------------------------------------------------------ "
    let brk = 1
  end

before group of csscontrol_ssn_no
  let cnt = cnt+1
  if cnt>22 then begin
    print " ------------------------------------------------------------------",
          "------------------------------------------------------------ "
    let brk = 1
    skip to top of page
  end
  print "| ",csscontrol_ssn_no,2 spaces,lrpproc_ssn_title,1 space,
        lrpproc_miss_name[1,5],"|";
  let tot=lrpproc_proc_funded_1+lrpproc_proc_funded_2+lrpproc_proc_funded_3+
          lrpproc_proc_funded_4+lrpproc_proc_funded_5+lrpproc_proc_funded_6+
          lrpproc_proc_funded_7+lrpproc_proc_funded_8+lrpproc_proc_funded_9+
          lrpproc_proc_funded_10+lrpproc_proc_funded_11+lrpproc_proc_funded_12+
          lrpproc_proc_funded_13+lrpproc_proc_funded_14+lrpproc_proc_funded_15+
          lrpproc_proc_funded_16+
        lrpproc_proc_unfunded_1+lrpproc_proc_unfunded_2+lrpproc_proc_unfunded_3+
        lrpproc_proc_unfunded_4+lrpproc_proc_unfunded_5+lrpproc_proc_unfunded_6+
        lrpproc_proc_unfunded_7+lrpproc_proc_unfunded_8+lrpproc_proc_unfunded_9+
     lrpproc_proc_unfunded_10+lrpproc_proc_unfunded_11+lrpproc_proc_unfunded_12+
     lrpproc_proc_unfunded_13+lrpproc_proc_unfunded_14+lrpproc_proc_unfunded_15+
     lrpproc_proc_unfunded_16
  if tot=0 then print column 93,"< Not Scheduled >";
  else if csscontrol_ssn_no matches "4*" then print column 93,"< Stock Funded >";
  else begin
  if lrpproc_proc_funded_1>0 then begin
    if lrpproc_proc_unfunded_1>0 then print "*-*-"; else print "****"; end
  else if lrpproc_proc_unfunded_1>0 then print "----"; else print "    ";
  if lrpproc_proc_funded_2>0 then begin
    if lrpproc_proc_unfunded_2>0 then print "*-*-"; else print "****"; end
  else if lrpproc_proc_unfunded_2>0 then print "----"; else print "    ";
```

```
if lrpproc_proc_funded_3>0 then begin
  if lrpproc_proc_unfunded_3>0 then print "*-*-"; else print "****"; end
else if lrpproc_proc_unfunded_3>0 then print "----"; else print "    ";
if lrpproc_proc_funded_4>0 then begin
  if lrpproc_proc_unfunded_4>0 then print "*-*-"; else print "****"; end
else if lrpproc_proc_unfunded_4>0 then print "----"; else print "    ";
if lrpproc_proc_funded_5>0 then begin
  if lrpproc_proc_unfunded_5>0 then print "*-*-"; else print "****"; end
else if lrpproc_proc_unfunded_5>0 then print "----"; else print "    ";
if lrpproc_proc_funded_6>0 then begin
  if lrpproc_proc_unfunded_6>0 then print "*-*-"; else print "****"; end
else if lrpproc_proc_unfunded_6>0 then print "----"; else print "    ";
if lrpproc_proc_funded_7>0 then begin
  if lrpproc_proc_unfunded_7>0 then print "*-*-"; else print "****"; end
else if lrpproc_proc_unfunded_7>0 then print "----"; else print "    ";
if lrpproc_proc_funded_8>0 then begin
  if lrpproc_proc_unfunded_8>0 then print "*-*-"; else print "****"; end
else if lrpproc_proc_unfunded_8>0 then print "----"; else print "    ";
if lrpproc_proc_funded_9>0 then begin
  if lrpproc_proc_unfunded_9>0 then print "*-*-"; else print "****"; end
else if lrpproc_proc_unfunded_9>0 then print "----"; else print "    ";
if lrpproc_proc_funded_10>0 then begin
  if lrpproc_proc_unfunded_10>0 then print "*-*-"; else print "****"; end
else if lrpproc_proc_unfunded_10>0 then print "----"; else print "    ";
if lrpproc_proc_funded_11>0 then begin
  if lrpproc_proc_unfunded_11>0 then print "*-*-"; else print "****"; end
else if lrpproc_proc_unfunded_11>0 then print "----"; else print "    ";
if lrpproc_proc_funded_12>0 then begin
  if lrpproc_proc_unfunded_12>0 then print "*-*-"; else print "****"; end
else if lrpproc_proc_unfunded_12>0 then print "----"; else print "    ";
if lrpproc_proc_funded_13>0 then begin
  if lrpproc_proc_unfunded_13>0 then print "*-*-"; else print "****"; end
else if lrpproc_proc_unfunded_13>0 then print "----"; else print "    ";
if lrpproc_proc_funded_14>0 then begin
  if lrpproc_proc_unfunded_14>0 then print "*-*-"; else print "****"; end
else if lrpproc_proc_unfunded_14>0 then print "----"; else print "    ";
```

```
    if lrpproc_proc_funded_15>0 then begin
      if lrpproc_proc_unfunded_15>0 then print "*-*-"; else print "****"; end
    else if lrpproc_proc_unfunded_15>0 then print "----"; else print "    ";
    if lrpproc_proc_funded_16>0 then begin
      if lrpproc_proc_unfunded_16>0 then print "*-*-"; else print "****"; end
    else if lrpproc_proc_unfunded_16>0 then print "----"; else print "    ";
    end
    print column 132,"|"

  after group of csscontrol_ssn_no
    print "|",8 spaces;
    if ssndef_def_1>0 then begin
      print ssndef_def_1 using " ####";
      if ssndef_con_1<>" " then print "-",ssndef_con_1; else print "  "; end
    if ssndef_def_2>0 then begin
      print ssndef_def_2 using " ####";
      if ssndef_con_2<>" " then print "-",ssndef_con_2; else print "  "; end
    if ssndef_def_3>0 then begin
      print ssndef_def_3 using " ####";
      if ssndef_con_3<>" " then print "-",ssndef_con_3; else print "  "; end
    if ssndef_def_4>0 then begin
      print ssndef_def_4 using " ####";
      if ssndef_con_4<>" " then print "-",ssndef_con_4; else print "  "; end
    if ssndef_def_5>0 then begin
      print ssndef_def_5 using " ####";
      if ssndef_con_5<>" " then print "-",ssndef_con_5; else print "  "; end
    if ssndef_def_6>0 then begin
      print ssndef_def_6 using " ####";
      if ssndef_con_6<>" " then print "-",ssndef_con_6; else print "  "; end
    if ssndef_def_7>0 then begin
      print ssndef_def_7 using " ####";
      if ssndef_con_7<>" " then print "-",ssndef_con_7; else print "  "; end
    if ssndef_def_8>0 then begin
      print ssndef_def_8 using " ####";
      if ssndef_con_8<>" " then print "-",ssndef_con_8; else print "  "; end
    print column 67,"|",column 132,"|"

  end
```

2. Commodity Profile Report Generator - Part 1

/u/plan/rpt.Linda/comprol

This report is similar to defprol and sysprol described earlier. Here, however, the RDTE funding data is accumulated by commodity line rather than by deficiency or system. Values are output in ASCII format for loading into the data base file comprol. This program is called automatically by the shell /u/plan/db/compro.

```
{ Commodity Profile Report Generator part 1. Works by Command}

database mat_plan end

define
  variable    vb            type character length 1

  variable    f85_tb        type long
  variable    u85_tb        type long
  variable    f85_dev       type long
  variable    u85_dev       type long

  variable    f86_tb        type long
  variable    u86_tb        type long
  variable    f86_dev       type long
  variable    u86_dev       type long

  variable    f87_tb        type long
  variable    u87_tb        type long
  variable    f87_dev       type long
  variable    u87_dev       type long

  variable    f88_tb        type long
  variable    u88_tb        type long
  variable    f88_dev       type long
  variable    u88_dev       type long

  variable    f89_tb        type long
  variable    u89_tb        type long
  variable    f89_dev       type long
  variable    u89_dev       type long

  variable    f90_tb        type long
  variable    u90_tb        type long
  variable    f90_dev       type long
  variable    u90_dev       type long
```

```
    variable    f91_tb          type long
    variable    u91_tb          type long
    variable    f91_dev         type long
    variable    u91_dev         type long

    variable    f92_tb          type long
    variable    u92_tb          type long
    variable    f92_dev         type long
    variable    u92_dev         type long

end

output
  top margin 0
  left margin 0
  page length 32000
  report to "comprol.out"
end

read into b
  csscontrol_ssn_no
  ssndesc_major_system ssndesc_cmd
  joining csscontrol_ssn_no = ssndesc_ssn_no
end

read  into c
  b
  wkpkg_no_indx wkpkg_subcat
  wkpkg_fund_yr0 wkpkg_fund_yr1 wkpkg_fund_yr2 wkpkg_fund_yr3
  wkpkg_fund_yr4 wkpkg_fund_yr5 wkpkg_fund_yr6 wkpkg_fund_yr7
  wkpkg_unfund_yr0 wkpkg_unfund_yr1 wkpkg_unfund_yr2 wkpkg_unfund_yr3
  wkpkg_unfund_yr4 wkpkg_unfund_yr5 wkpkg_unfund_yr6 wkpkg_unfund_yr7
  joining b.csscontrol_ssn_no = pseudolink_ssn_no
      and pseudolink_wkpkg_indx = wkpkg_no_indx
end

sort by ssndesc_cmd ssndesc_major_system wkpkg_cmd wkpkg_cat wkpkg_no end
```

```
format

before group of ssndesc_major_system
  let f85_tb = 0
  let u85_tb = 0
  let f85_dev = 0
  let u85_dev = 0
  let f86_tb = 0
  let u86_tb = 0
  let f86_dev = 0
  let u86_dev = 0
  let f87_tb = 0
  let u87_tb = 0
  let f87_dev = 0
  let u87_dev = 0
  let f88_tb = 0
  let u88_tb = 0
  let f88_dev = 0
  let u88_dev = 0
  let f89_tb = 0
  let u89_tb = 0
  let f89_dev = 0
  let u89_dev = 0
  let f90_tb = 0
  let u90_tb = 0
  let f90_dev = 0
  let u90_dev = 0
  let f91_tb = 0
  let u91_tb = 0
  let f91_dev = 0
  let u91_dev = 0
  let f92_tb = 0
  let u92_tb = 0
  let f92_dev = 0
  let u92_dev = 0
```

```
before group of wkpkg_no
  if wkpkg_subcat="6.1" or wkpkg_subcat="6.2" or wkpkg_subcat="6.3A" then begin
    let f85_tb = f85_tb + wkpkg_fund_yr0
    let f86_tb = f86_tb + wkpkg_fund_yr1
    let f87_tb = f87_tb + wkpkg_fund_yr2
    let f88_tb = f88_tb + wkpkg_fund_yr3
    let f89_tb = f89_tb + wkpkg_fund_yr4
    let f90_tb = f90_tb + wkpkg_fund_yr5
    let f91_tb = f91_tb + wkpkg_fund_yr6
    let f92_tb = f92_tb + wkpkg_fund_yr7
    let u85_tb = u85_tb + wkpkg_unfund_yr0
    let u86_tb = u86_tb + wkpkg_unfund_yr1
    let u87_tb = u87_tb + wkpkg_unfund_yr2
    let u88_tb = u88_tb + wkpkg_unfund_yr3
    let u89_tb = u89_tb + wkpkg_unfund_yr4
    let u90_tb = u90_tb + wkpkg_unfund_yr5
    let u91_tb = u91_tb + wkpkg_unfund_yr6
    let u92_tb = u92_tb + wkpkg_unfund_yr7
  end
  else if wkpkg_subcat="6.3B" or wkpkg_subcat="6.4" or wkpkg_subcat="6.7" then begin
    let f85_dev = f85_dev + wkpkg_fund_yr0
    let f86_dev = f86_dev + wkpkg_fund_yr1
    let f87_dev = f87_dev + wkpkg_fund_yr2
    let f88_dev = f88_dev + wkpkg_fund_yr3
    let f89_dev = f89_dev + wkpkg_fund_yr4
    let f90_dev = f90_dev + wkpkg_fund_yr5
    let f91_dev = f91_dev + wkpkg_fund_yr6
    let f92_dev = f92_dev + wkpkg_fund_yr7
    let u85_dev = u85_dev + wkpkg_unfund_yr0
    let u86_dev = u86_dev + wkpkg_unfund_yr1
    let u87_dev = u87_dev + wkpkg_unfund_yr2
    let u88_dev = u88_dev + wkpkg_unfund_yr3
    let u89_dev = u89_dev + wkpkg_unfund_yr4
    let u90_dev = u90_dev + wkpkg_unfund_yr5
    let u91_dev = u91_dev + wkpkg_unfund_yr6
    let u92_dev = u92_dev + wkpkg_unfund_yr7
  end
```

```
after group of ssndesc_major_system
  let vb="|"
  print ssndesc_major_system,vb,ssndesc_cmd,vb;
  print f85_tb,vb,f86_tb,vb,f87_tb,vb,f88_tb,vb,
        f89_tb,vb,f90_tb,vb,f91_tb,vb,f92_tb,vb;
  print u85_tb,vb,u86_tb,vb,u87_tb,vb,u88_tb,vb,
        u89_tb,vb,u90_tb,vb,u91_tb,vb,u92_tb,vb;
  print f85_dev,vb,f86_dev,vb,f87_dev,vb,f88_dev,vb,
        f89_dev,vb,f90_dev,vb,f91_dev,vb,f92_dev,vb;
  print u85_dev,vb,u86_dev,vb,u87_dev,vb,u88_dev,vb,
        u89_dev,vb,u90_dev,vb,u91_dev,vb,u92_dev,vb

end
```

3. Commodity Profile Report Generator - Part 2

/u/plan/rpt.Linda/compro2

This report is similar to defpro2 described earlier. Here the funding profile is presented by commodity line rather than by deficiency. RDTE values from compro1 are combined with accumulated system procurement funding amounts to produce a vertical bar chart of funding levels for each commodity line. It is called automatically by the shell /u/plan/db/compro.

```
{ Commodity Profile Report Generator }

database mat_plan end

define
  param[1]    pno           type integer
  variable    counter       type integer
  variable    tf            type float
  variable    i             type integer
  variable    x             type long
  variable    xdiv          type long
  variable    form1         type character length 10
  variable    form2         type character length 10
  variable    ufx           type character length 3
  variable    ufd           type character length 3
  variable    ufp           type character length 3
  variable    fx            type character length 3
  variable    fd            type character length 3
  variable    fp            type character length 3

  variable    f85_proc      type long
  variable    u85_proc      type long
  variable    f86_proc      type long
  variable    u86_proc      type long
  variable    f87_proc      type long
  variable    u87_proc      type long
  variable    f88_proc      type long
  variable    u88_proc      type long
  variable    f89_proc      type long
  variable    u89_proc      type long
  variable    f90_proc      type long
  variable    u90_proc      type long
  variable    f91_proc      type long
  variable    u91_proc      type long
  variable    f92_proc      type long
  variable    u92_proc      type long
```

```
    variable    f93_proc        type long
    variable    u93_proc        type long
    variable    f94_proc        type long
    variable    u94_proc        type long
    variable    f95_proc        type long
    variable    u95_proc        type long
    variable    f96_proc        type long
    variable    u96_proc        type long
    variable    f97_proc        type long
    variable    u97_proc        type long
    variable    f98_proc        type long
    variable    u98_proc        type long
    variable    f99_proc        type long
    variable    u99_proc        type long
    variable    f00_proc        type long
    variable    u00_proc        type long

end

output
  left margin 0
  right margin 132
  report to "compro2.out"
end

read into a
  csscontrol_ssn_no csscontrol_type
  ssndesc_major_system ssndesc_cmd
  compro1
  where compro1_cmd = ssndesc_cmd or compro1_cmd = " "
  joining csscontrol_ssn_no = ssndesc_ssn_no
      and ssndesc_major_system = optional compro1_commodity
end

read into b
  a
  lrpproc_proc_funded_1 lrpproc_proc_funded_2 lrpproc_proc_funded_3
  lrpproc_proc_funded_4 lrpproc_proc_funded_5 lrpproc_proc_funded_6
  lrpproc_proc_funded_7 lrpproc_proc_funded_8
```

```
    lrpproc_proc_funded_9 lrpproc_proc_funded_10 lrpproc_proc_funded_11
    lrpproc_proc_funded_12 lrpproc_proc_funded_13 lrpproc_proc_funded_14
    lrpproc_proc_funded_15 lrpproc_proc_funded_16
    lrpproc_proc_unfunded_1 lrpproc_proc_unfunded_2 lrpproc_proc_unfunded_3
    lrpproc_proc_unfunded_4 lrpproc_proc_unfunded_5 lrpproc_proc_unfunded_6
    lrpproc_proc_unfunded_7 lrpproc_proc_unfunded_8
    lrpproc_proc_unfunded_9 lrpproc_proc_unfunded_10 lrpproc_proc_unfunded_11
    lrpproc_proc_unfunded_12 lrpproc_proc_unfunded_13 lrpproc_proc_unfunded_14
    lrpproc_proc_unfunded_15 lrpproc_proc_unfunded_16
    joining  a.csscontrol_ssn_no = optional lrpproc_ssn_no
end

sort by ssndesc_cmd ssndesc_major_system csscontrol_ssn_no end

format

page header
  print column 47,"****** U N C L A S S I F I E D ******"
  skip 2 lines

page trailer
  skip 1 line
  print column 47,"****** U N C L A S S I F I E D ******"
  skip 1 line
  print column 60,pno
  let pno = pno+1

before group of ssndesc_major_system
  skip to top of page
  print 40 spaces,ssndesc_major_system clipped,
      " COMMODITY LINE FISCAL SUMMARY FOR ",ssndesc_cmd
  skip 1 line

  let f85_proc = 0
  let u85_proc = 0
  let f86_proc = 0
  let u86_proc = 0
  let f87_proc = 0
  let u87_proc = 0
```

```
        let f88_proc = 0
        let u88_proc = 0
        let f89_proc = 0
        let u89_proc = 0
        let f90_proc = 0
        let u90_proc = 0
        let f91_proc = 0
        let u91_proc = 0
        let f92_proc = 0
        let u92_proc = 0
        let f93_proc = 0
        let u93_proc = 0
        let f94_proc = 0
        let u94_proc = 0
        let f95_proc = 0
        let u95_proc = 0
        let f96_proc = 0
        let u96_proc = 0
        let f97_proc = 0
        let u97_proc = 0
        let f98_proc = 0
        let u98_proc = 0
        let f99_proc = 0
        let u99_proc = 0
        let f00_proc = 0
        let u00_proc = 0

    after group of csscontrol_ssn_no
        let f85_proc = f85_proc+lrpproc_proc_funded_1*1000
        let u85_proc = u85_proc+lrpproc_proc_unfunded_1*1000
        let f86_proc = f86_proc+lrpproc_proc_funded_2*1000
        let u86_proc = u86_proc+lrpproc_proc_unfunded_2*1000
        let f87_proc = f87_proc+lrpproc_proc_funded_3*1000
        let u87_proc = u87_proc+lrpproc_proc_unfunded_3*1000
        let f88_proc = f88_proc+lrpproc_proc_funded_4*1000
        let u88_proc = u88_proc+lrpproc_proc_unfunded_4*1000
        let f89_proc = f89_proc+lrpproc_proc_funded_5*1000
        let u89_proc = u89_proc+lrpproc_proc_unfunded_5*1000
```

```
    let f90_proc = f90_proc+lrpproc_proc_funded_6*1000
    let u90_proc = u90_proc+lrpproc_proc_unfunded_6*1000
    let f91_proc = f91_proc+lrpproc_proc_funded_7*1000
    let u91_proc = u91_proc+lrpproc_proc_unfunded_7*1000
    let f92_proc = f92_proc+lrpproc_proc_funded_8*1000
    let u92_proc = u92_proc+lrpproc_proc_unfunded_8*1000
    let f93_proc = f93_proc+lrpproc_proc_funded_9*1000
    let u93_proc = u93_proc+lrpproc_proc_unfunded_9*1000
    let f94_proc = f94_proc+lrpproc_proc_funded_10*1000
    let u94_proc = u94_proc+lrpproc_proc_unfunded_10*1000
    let f95_proc = f95_proc+lrpproc_proc_funded_11*1000
    let u95_proc = u95_proc+lrpproc_proc_unfunded_11*1000
    let f96_proc = f96_proc+lrpproc_proc_funded_12*1000
    let u96_proc = u96_proc+lrpproc_proc_unfunded_12*1000
    let f97_proc = f97_proc+lrpproc_proc_funded_13*1000
    let u97_proc = u97_proc+lrpproc_proc_unfunded_13*1000
    let f98_proc = f98_proc+lrpproc_proc_funded_14*1000
    let u98_proc = u98_proc+lrpproc_proc_unfunded_14*1000
    let f99_proc = f99_proc+lrpproc_proc_funded_15*1000
    let u99_proc = u99_proc+lrpproc_proc_unfunded_15*1000
    let f00_proc = f00_proc+lrpproc_proc_funded_16*1000
    let u00_proc = u00_proc+lrpproc_proc_unfunded_16*1000

after group of ssndesc_major_system
    let form1 = "######### "
    let form2 = "(((((((((#)"
    let ufx = "X--"
    let ufd = "D--"
    let ufp = "P--"
    let fx = "XXX"
    let fd = "DDD"
    let fp = "PPP"
    let tf = 0
    if c_f85_tb+c_u85_tb > tf then let tf = c_f85_tb+c_u85_tb
    if c_f85_dev+c_u85_dev > tf then let tf = c_f85_dev+c_u85_dev
    if (f85_proc+u85_proc)/10 > tf then let tf = (f85_proc+u85_proc)/10
```

```
if c_f86_tb+c_u86_tb > tf then let tf = c_f86_tb+c_u86_tb
if c_f86_dev+c_u86_dev > tf then let tf = c_f86_dev+c_u86_dev
if (f86_proc+u86_proc)/10 > tf then let tf = (f86_proc+u86_proc)/10

if c_f87_tb+c_u87_tb > tf then let tf = c_f87_tb+c_u87_tb
if c_f87_dev+c_u87_dev > tf then let tf = c_f87_dev+c_u87_dev
if (f87_proc+u87_proc)/10 > tf then let tf = (f87_proc+u87_proc)/10

if c_f88_tb+c_u88_tb > tf then let tf = c_f88_tb+c_u88_tb
if c_f88_dev+c_u88_dev > tf then let tf = c_f88_dev+c_u88_dev
if (f88_proc+u88_proc)/10 > tf then let tf = (f88_proc+u88_proc)/10

if c_f89_tb+c_u89_tb > tf then let tf = c_f89_tb+c_u89_tb
if c_f89_dev+c_u89_dev > tf then let tf = c_f89_dev+c_u89_dev
if (f89_proc+u89_proc)/10 > tf then let tf = (f89_proc+u89_proc)/10

if c_f90_tb+c_u90_tb > tf then let tf = c_f90_tb+c_u90_tb
if c_f90_dev+c_u90_dev > tf then let tf = c_f90_dev+c_u90_dev
if (f90_proc+u90_proc)/10 > tf then let tf = (f90_proc+u90_proc)/10

if c_f91_tb+c_u91_tb > tf then let tf = c_f91_tb+c_u91_tb
if c_f91_dev+c_u91_dev > tf then let tf = c_f91_dev+c_u91_dev
if (f91_proc+u91_proc)/10 > tf then let tf = (f91_proc+u91_proc)/10

if c_f92_tb+c_u92_tb > tf then let tf = c_f92_tb+c_u92_tb
if c_f92_dev+c_u92_dev > tf then let tf = c_f92_dev+c_u92_dev
if (f92_proc+u92_proc)/10 > tf then let tf = (f92_proc+u92_proc)/10

if (f93_proc+u93_proc)/10 > tf then let tf = (f93_proc+u93_proc)/10
if (f94_proc+u94_proc)/10 > tf then let tf = (f94_proc+u94_proc)/10
if (f95_proc+u95_proc)/10 > tf then let tf = (f95_proc+u95_proc)/10
if (f96_proc+u96_proc)/10 > tf then let tf = (f96_proc+u96_proc)/10
if (f97_proc+u97_proc)/10 > tf then let tf = (f97_proc+u97_proc)/10
if (f98_proc+u98_proc)/10 > tf then let tf = (f98_proc+u98_proc)/10
if (f99_proc+u99_proc)/10 > tf then let tf = (f99_proc+u99_proc)/10
if (f00_proc+u00_proc)/10 > tf then let tf = (f00_proc+u00_proc)/10
```

```
let tf = tf*0.8
skip 3 lines
let x = 15000
if tf>x then let x = 30000
if tf>x then let x = 75000
if tf>x then let x = 150000
if tf>x then let x = 300000
if tf>x then let x = 750000
if tf>x then let x = 1500000
let xdiv = x/30
for i = 1 to 30 do begin
  if i=1 or i=11 or i=21 then print 4 spaces, x/1000 using "######";
  if i=15 then print "RDTE ($ 1M)";
  if i=17 then print "PROC ($10M)";
  print column 13,"|";
  if c_f85_tb + c_u85_tb >= x then begin
    if c_f85_tb >= x then print fx; else print ufx; end
    else print "   ";
  if c_f85_dev + c_u85_dev >= x then begin
    if c_f85_dev >= x then print fd; else print ufd; end
    else print "   ";
  if f85_proc + u85_proc >= x*10 then begin
    if f85_proc >= x*10 then print fp; else print ufp; end
    else print "   ";
  print 1 space;
  if c_f86_tb + c_u86_tb >= x then begin
    if c_f86_tb >= x then print fx; else print ufx; end
    else print "   ";
  if c_f86_dev + c_u86_dev >= x then begin
    if c_f86_dev >= x then print fd; else print ufd; end
    else print "   ";
  if f86_proc + u86_proc >= x*10 then begin
    if f86_proc >= x*10 then print fp; else print ufp; end
    else print "   ";
  print 1 space;
  if c_f87_tb + c_u87_tb >= x then begin
    if c_f87_tb >= x then print fx; else print ufx; end
    else print "   ";
```

```
if c_f87_dev + c_u87_dev >= x then begin
  if c_f87_dev >= x then print fd; else print ufd; end
  else print "   ";
if f87_proc + u87_proc >= x*10 then begin
  if f87_proc >= x*10 then print fp; else print ufp; end
  else print "   ";
print 1 space;
if c_f88_tb + c_u88_tb >= x then begin
  if c_f88_tb >= x then print fx; else print ufx; end
  else print "   ";
if c_f88_dev + c_u88_dev >= x then begin
  if c_f88_dev >= x then print fd; else print ufd; end
  else print "   ";
if f88_proc + u88_proc >= x*10 then begin
  if f88_proc >= x*10 then print fp; else print ufp; end
  else print "   ";
print 1 space;
if c_f89_tb + c_u89_tb >= x then begin
  if c_f89_tb >= x then print fx; else print ufx; end
  else print "   ";
if c_f89_dev + c_u89_dev >= x then begin
  if c_f89_dev >= x then print fd; else print ufd; end
  else print "   ";
if f89_proc + u89_proc >= x*10 then begin
  if f89_proc >= x*10 then print fp; else print ufp; end
  else print "   ";
print 1 space;
if c_f90_tb + c_u90_tb >= x then begin
  if c_f90_tb >= x then print fx; else print ufx; end
  else print "   ";
if c_f90_dev + c_u90_dev >= x then begin
  if c_f90_dev >= x then print fd; else print ufd; end
  else print "   ";
if f90_proc + u90_proc >= x*10 then begin
  if f90_proc >= x*10 then print fp; else print ufp; end
  else print "   ";
print 1 space;
```

```
if c_f91_tb + c_u91_tb >= x then begin
  if c_f91_tb >= x then print fx; else print ufx; end
  else print "   ";
if c_f91_dev + c_u91_dev >= x then begin
  if c_f91_dev >= x then print fd; else print ufd; end
  else print "   ";
if f91_proc + u91_proc >= x*10 then begin
  if f91_proc >= x*10 then print fp; else print ufp; end
  else print "   ";
print 1 space;
if c_f92_tb + c_u92_tb >= x then begin
  if c_f92_tb >= x then print fx; else print ufx; end
  else print "   ";
if c_f92_dev + c_u92_dev >= x then begin
  if c_f92_dev >= x then print fd; else print ufd; end
  else print "   ";
if f92_proc + u92_proc >= x*10 then begin
  if f92_proc >= x*10 then print fp; else print ufp; end
  else print "   ";
print 2 spaces;
if f93_proc + u93_proc >= x*10 then begin
  if f93_proc >= x*10 then print fp; else print ufp; end
  else print "   ";
print 2 spaces;
if f94_proc + u94_proc >= x*10 then begin
  if f94_proc >= x*10 then print fp; else print ufp; end
  else print "   ";
print 2 spaces;
if f95_proc + u95_proc >= x*10 then begin
  if f95_proc >= x*10 then print fp; else print ufp; end
  else print "   ";
print 2 spaces;
if f96_proc + u96_proc >= x*10 then begin
  if f96_proc >= x*10 then print fp; else print ufp; end
  else print "   ";
print 2 spaces;
```

```
      if f97_proc + u97_proc >= x*10 then begin
        if f97_proc >= x*10 then print fp; else print ufp; end
        else print "    ";
      print 2 spaces;
      if f98_proc + u98_proc >= x*10 then begin
        if f98_proc >= x*10 then print fp; else print ufp; end
        else print "    ";
      print 2 spaces;
      if f99_proc + u99_proc >= x*10 then begin
        if f99_proc >= x*10 then print fp; else print ufp; end
        else print "    ";
      print 2 spaces;
      if f00_proc + u00_proc >= x*10 then begin
        if f00_proc >= x*10 then print fp; else print ufp; end
        else print "    ";
      print ""
      let x = x-xdiv
    end
    print 13 spaces;
    for i = 14 to 132 do print "-";
    print ""
    print 16 spaces,"1985",6 spaces,"1986",6 spaces,"1987",6 spaces,
       "1988",6 spaces,"1989",6 spaces,"1990",6 spaces,"1991",6 spaces,"1992",
       "    ! 93    94    95    96    97    98    99    00"
    print column 94,"!"
    print "Tech Base    ",c_f85_tb using form1,c_f86_tb using form1,
                          c_f87_tb using form1,c_f88_tb using form1,
                          c_f89_tb using form1,c_f90_tb using form1,
                          c_f91_tb using form1,c_f92_tb using form1,column 94,"!"
    print "   (",fx,"/",ufx,") ",
                       -c_u85_tb using form2,-c_u86_tb using form2,
                       -c_u87_tb using form2,-c_u88_tb using form2,
                       -c_u89_tb using form2,-c_u90_tb using form2,
                       -c_u91_tb using form2,-c_u92_tb using form2,column 94,"!"
    print column 94,"!"
    print "Development ",c_f85_dev using form1,c_f86_dev using form1,
                          c_f87_dev using form1,c_f88_dev using form1,
                          c_f89_dev using form1,c_f90 dev using form1,
```

```
                        c_f91_dev using form1,c_f92_dev using form1,column 94,"¦"
    print "  (",fd,"/",ufd,") ",
                    -c_u85_dev using form2,-c_u86_dev using form2,
                    -c_u87_dev using form2,-c_u88_dev using form2,
                    -c_u89_dev using form2,-c_u90_dev using form2,
                    -c_u91_dev using form2,-c_u92_dev using form2,column 94,"¦"
    print column 94,"¦"
    print "Procurement ",f85_proc using form1,f86_proc using form1,
                         f87_proc using form1,f88_proc using form1,
                         f89_proc using form1,f90_proc using form1,
                         f91_proc using form1,f92_proc using form1,
                         column 94,"¦      See Out Year Procurement"
    print "  (",fp,"/",ufp,") ",
                    -u85_proc using form2,-u86_proc using form2,
                    -u87_proc using form2,-u88_proc using form2,
                    -u89_proc using form2,-u90_proc using form2,
                    -u91_proc using form2,-u92_proc using form2,
                    column 94,"¦      Funding Levels Below"
    print column 94,"¦"
    print 54 spaces;
    for i=55 to 132 do print "-";
    print ""
    print 56 spaces,"1993",6 spaces,"1994",6 spaces,"1995",6 spaces,"1996",
          6 spaces,"1997",6 spaces,"1998",6 spaces,"1999",6 spaces,"2000"
    skip 1 line
    print 29 spaces,"Procurement (Out Years)",
                         f93_proc using form1,f94_proc using form1,
                         f95_proc using form1,f96_proc using form1,
                         f97_proc using form1,f98_proc using form1,
                         f99_proc using form1,f00_proc using form1
    print 52 spaces,-u93_proc using form2,-u94_proc using form2,
                    -u95_proc using form2,-u96_proc using form2,
                    -u97_proc using form2,-u98_proc using form2,
                    -u99_proc using form2,-u00_proc using form2

end
```

4. Commodity Index

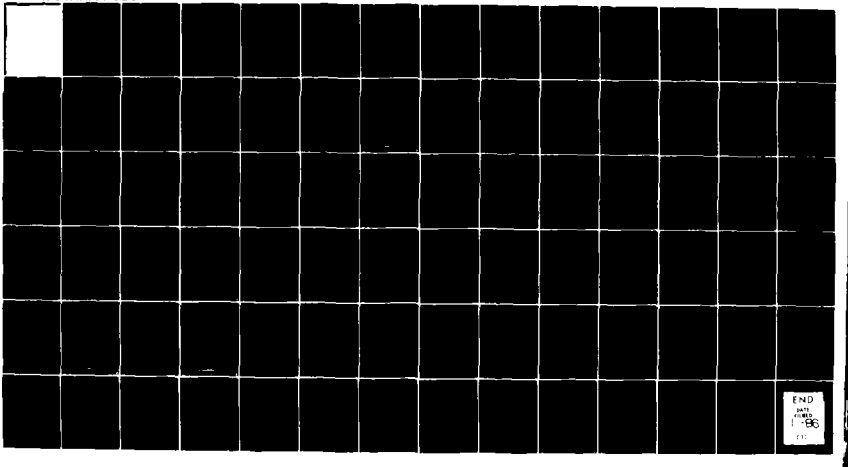
/u/plan/rpt.Linda/comindex

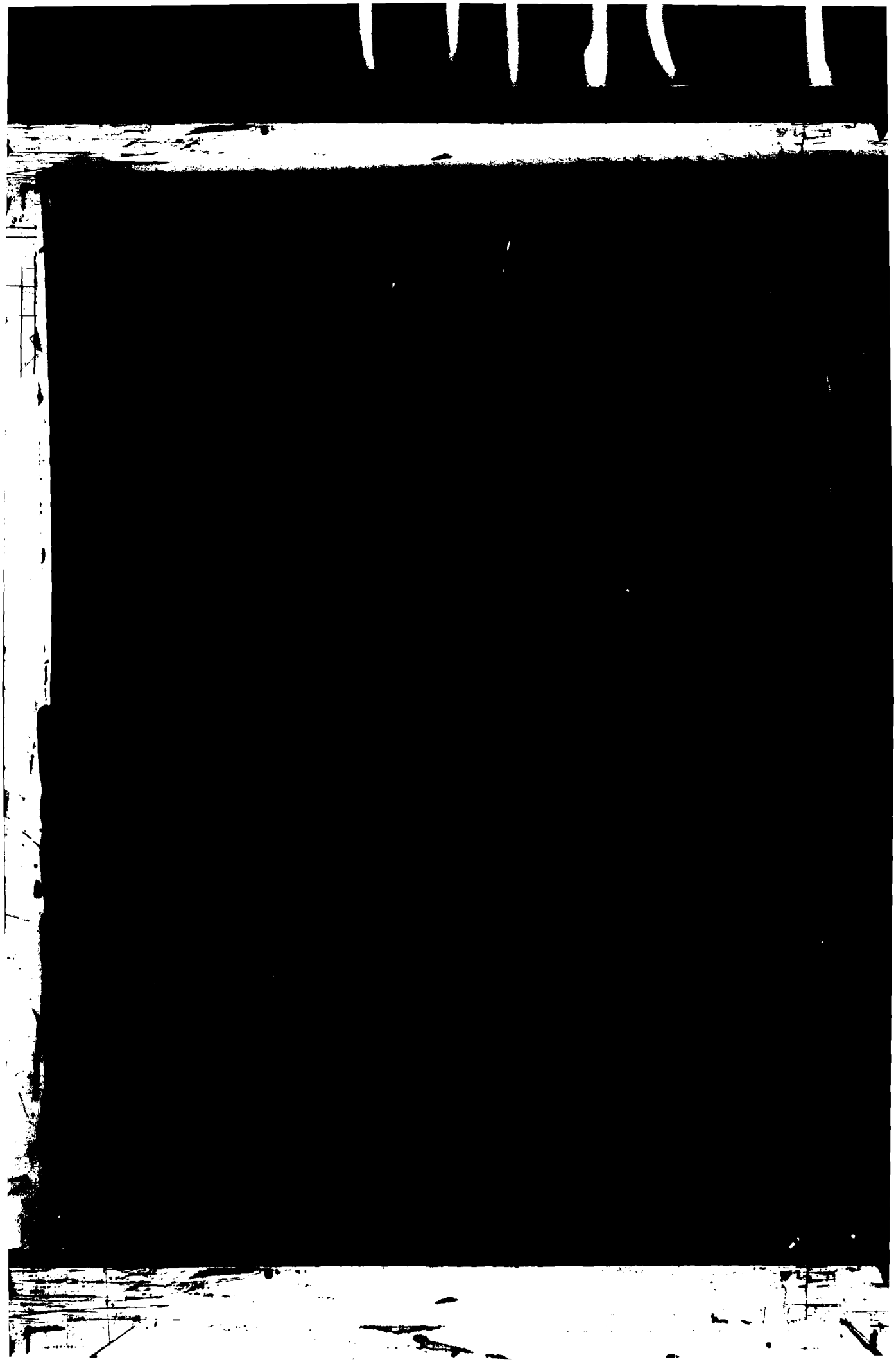
This brief report produces a simple and straightforward listing of the command-commodity line combinations for use as an index to the report. The page number locations are marked with three hyphens "---". After running this report and the commodity summary report, the actual page numbers should be substituted for the hyphens using the editor (vi).

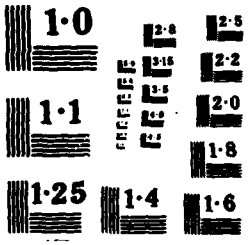
```
database mat_plan end

output
  left margin 0
  right margin 132
  report to "comindex.out"
end

read into a
  ssndesc_cmd ssndesc_major_system
  joining csscontrol_ssn_no = ssndesc_ssn_no
end

sort by ssndesc_major_system ssndesc_cmd end

format

before group of ssndesc_cmd
  print 42 spaces, ssndesc_major_system, 8 spaces, ssndesc_cmd, 10 spaces, "---"


page header
  print column 47, "******  U N C L A S S I F I E D  ******"
  skip 3 lines
  print column 44, "COMMODITY LINE INDEX IN ALPHABETICAL ORDER"
  skip 3 lines
  print 40 spaces, "COMMODITY LINE", 6 spaces, "COMMAND", 10 spaces, "PAGE NUMBER"
  skip 2 lines

page trailer
  skip 2 lines
  print column 47, "******  U N C L A S S I F I E D  ******"
  skip 1 line
  print 62 spaces, "B-", pageno using "###"

end
```

AD A160 998 COMBAT SERVICE SUPPORT MISSION AREA MATERIEL PLAN (CSS MAMP) USER'S MANUAL(U) BDM CORP MCLEAN VA 30 SEP 85 BDM/W-85-0795-TR DAAK70-83-D-0019 2/2

UNCLASSIFIED F/G 15/5 NL






1·0
1·1
1·25
2·8
2·5
2·2
2·0
1·8
1·4
1·6

C. PROJECT REPORTS

1. Project Summary

/u/plan/rpt.Linda/peproj

This report produces a funding summary for each CSS funded project in cssprrdte. The summary relates projects and tasks to the systems which are addressed by the RDTE effort. When two or more commands share a same PE-Project number, then two separate reports are printed. Note that this report uses the "input" statement to get the starting page number from the standard input file. The other reports in this document get the starting page number as a parameter to the acego command line.

```
{ PE - PROJ summary }

database mat_plan end

define
  variable evalcount type integer
  variable pagecount type integer
  variable linecount type integer
  variable pno       type integer
end

input
  prompt for pno using "Please enter the starting page number > "
end

output
  right margin 132
  left margin 0
  report to "peproj.out"
end

read into b
  proj_indx proj_title
  proj_fund_0 proj_fund_1 proj_fund_2 proj_fund_3
  proj_fund_4 proj_fund_5 proj_fund_6 proj_fund_7
  proj_unfund_0 proj_unfund_1 proj_unfund_2 proj_unfund_3
  proj_unfund_4 proj_unfund_5 proj_unfund_6 proj_unfund_7
  task_no task_title
  task_fund_0 task_fund_1 task_fund_2 task_fund_3
  task_fund_4 task_fund_5 task_fund_6 task_fund_7
  task_unfund_0 task_unfund_1 task_unfund_2 task_unfund_3
  task_unfund_4 task_unfund_5 task_unfund_6 task_unfund_7
  wkpkg_no_indx
  where cssprrdte_miss_area = "CSS"
  joining cssprrdte_proj_indx = proj_indx
      and proj_indx = task_proj_indx
      and task_no_indx = optional wkpkg_task_indx
end
```

```
read into c
  csscontrol_ssn_no
  lrpproc_ssn_title
  joining csscontrol_ssn_no = lrpproc_ssn_no
end

read into a
  b
  c
  joining b.wkpkg_no_indx = optional pseudolink_wkpkg_indx
      and pseudolink_ssn_no = optional c.csscontrol_ssn_no
end

sort by proj_pe proj_no task_no csscontrol_ssn_no end

format

page header
  print column 47,"******  U N C L A S S I F I E D  ******"
  skip 2 lines
  print 8 spaces,"COMMAND:  ",proj_cmd,
        8 spaces,"PROJECT:  ",proj_pe,2 spaces,proj_no,
        10 spaces,"TITLE:  ",proj_title clipped;
  if pagecount=1 then print " (Continued)" else print ""
  skip 2 lines
  print " ------------------------------------------------------------------",
        "------------------------------------------------------ "
  print "!",15 spaces,"TASKS/SYSTEMS",column 75,
        "!  FY85    FY86    FY87    FY88    FY89    FY90    FY91    FY92 !"
  print "!---------------------------------------------------------------",
        "------!-------------------------------------------------------!"
  let linecount = 47

page trailer
  skip 1 line
  print column 47,"******  U N C L A S S I F I E D  ******"
  skip 1 line
  print column 60,pno
  let pno = pno+1
```

```
before group of proj_no
  let pagecount=0
  skip to top of page

after group of proj_no
  if linecount < 5 then begin
    print "!",column 75,"!",column 132,"!"
    print " ----------------------------------------------------------------",
          "---------------------------------------------------------------- "
    skip to top of page
  end
  else begin
    print "!",column 75,"!",column 132,"!"
    print "!----------------------------------------------------------------",
          "----------|-----------------------------------------------------|"
  end
  print "! TOTAL FUNDS FOR PROJECT:  FUNDED",column 75,"!";
  if proj_fund_0>0 then print proj_fund_0 using "###### "; else print "       ";
  if proj_fund_1>0 then print proj_fund_1 using "###### "; else print "       ";
  if proj_fund_2>0 then print proj_fund_2 using "###### "; else print "       ";
  if proj_fund_3>0 then print proj_fund_3 using "###### "; else print "       ";
  if proj_fund_4>0 then print proj_fund_4 using "###### "; else print "       ";
  if proj_fund_5>0 then print proj_fund_5 using "###### "; else print "       ";
  if proj_fund_6>0 then print proj_fund_6 using "###### "; else print "       ";
  if proj_fund_7>0 then print proj_fund_7 using "###### "; else print "       ";
  print column 132,"!"
  print "!                                UNFUNDED",column 75,"!";
  if proj_unfund_0>0 then print -proj_unfund_0 using "(#####)";
     else print "       ";
  if proj_unfund_1>0 then print -proj_unfund_1 using "(#####)";
     else print "       ";
  if proj_unfund_2>0 then print -proj_unfund_2 using "(#####)";
     else print "       ";
  if proj_unfund_3>0 then print -proj_unfund_3 using "(#####)";
     else print "       ";
  if proj_unfund_4>0 then print -proj_unfund_4 using "(#####)";
     else print "       ";
```

```
    if proj_unfund_5>0 then print -proj_unfund_5 using "(((((#)";
       else print "       ";
    if proj_unfund_6>0 then print -proj_unfund_6 using "(((((#)";
       else print "       ";
    if proj_unfund_7>0 then print -proj_unfund_7 using "(((((#)";
       else print "       ";
    print column 132,"!"
    print " ------------------------------------------------------------------------",
          "------------------------------------------------------------ ";

  before group of task_no
    let evalcount = 0
    if linecount<5 then begin
      print "!",column 75,"!",column 132,"!"
      print " ------------------------------------------------------------------------",
            "------------------------------------------------------------ ";
      skip to top of page
    end
    print "!",column 75,"!",column 132,"!"
    print "! TASK:   ",task_no[1,6],1 space,task_title[1,55],column 75,"!";
    if task_fund_0>0 then print task_fund_0 using "###### "; else print "       ";
    if task_fund_1>0 then print task_fund_1 using "###### "; else print "       ";
    if task_fund_2>0 then print task_fund_2 using "###### "; else print "       ";
    if task_fund_3>0 then print task_fund_3 using "###### "; else print "       ";
    if task_fund_4>0 then print task_fund_4 using "###### "; else print "       ";
    if task_fund_5>0 then print task_fund_5 using "###### "; else print "       ";
    if task_fund_6>0 then print task_fund_6 using "###### "; else print "       ";
    if task_fund_7>0 then print task_fund_7 using "###### "; else print "       ";
    print "!"
    let linecount = linecount-2

  after group of task_no
    let pagecount = 1
    if evalcount = 0 then begin
      print "!",column 75,"!";
      if task_unfund_0>0 then print -task_unfund_0 using "(((((#)";
        else print "       ";
```

```
      if task_unfund_1>0 then print -task_unfund_1 using "(((((#)";
        else print "       ";
      if task_unfund_2>0 then print -task_unfund_2 using "(((((#)";
        else print "       ";
      if task_unfund_3>0 then print -task_unfund_3 using "(((((#)";
        else print "       ";
      if task_unfund_4>0 then print -task_unfund_4 using "(((((#)";
        else print "       ";
      if task_unfund_5>0 then print -task_unfund_5 using "(((((#)";
        else print "       ";
      if task_unfund_6>0 then print -task_unfund_6 using "(((((#)";
        else print "       ";
      if task_unfund_7>0 then print -task_unfund_7 using "(((((#)";
        else print "       ";
      print column 132,"!"
      let linecount = linecount-1
    end

  before group of csscontrol_ssn_no
    if csscontrol_ssn_no<>" " then begin
      if linecount < 3 then begin
        print "!",column 75,"!",column 132,"!"
        print " ------------------------------------------------------------------------",
          "------------------------------------------------------------------------ ";
        skip to top of page
      end
      print "! ",5 spaces,csscontrol_ssn_no,3 spaces,lrpproc_ssn_title,
          column 75,"!";
      let linecount = linecount-1
      if evalcount = 0 then begin
        let evalcount = 1
        if task_unfund_0>0 then print -task_unfund_0 using "(((((#)";
          else print "       ";
        if task_unfund_1>0 then print -task_unfund_1 using "(((((#)";
          else print "       ";
        if task_unfund_2>0 then print -task_unfund_2 using "(((((#)";
          else print "       ";
```

```
            if task_unfund_3>0 then print -task_unfund_3 using "(((((#)";
              else print "       ";
            if task_unfund_4>0 then print -task_unfund_4 using "(((((#)";
              else print "       ";
            if task_unfund_5>0 then print -task_unfund_5 using "(((((#)";
              else print "       ";
            if task_unfund_6>0 then print -task_unfund_6 using "(((((#)";
              else print "       ";
            if task_unfund_7>0 then print -task_unfund_7 using "(((((#)";
              else print "       ";
          end
          print column 132,"|"
        end

      end
```

2. Project Index

/u/plan/rpt.Linda/projindex

This report produces an index to the peproj report described earlier. The page number locations are marked with hyphens. Actual page numbers should be entered using the system editor (vi) after the project summary has been run.

```
database mat_plan end

define
  variable i type integer
end

output
  left margin 0
  right margin 132
  report to "projindex.out"
end

read into a
  proj_indx proj_title
  where (cssprrdte_miss_area = "CSS")
  joining cssprrdte_proj_indx = proj_indx
end

sort by proj_pe proj_no proj_cmd end

format

page header
  print column 47,"******  U N C L A S S I F I E D  ******"
  skip 3 lines
  print column 47,"      CSS FUNDED RDTE PROJECT INDEX"
  skip 3 lines
  print 31 spaces,"PE",5 spaces,"PROJ",13 spaces,"TITLE",
        28 spaces,"COMMAND",8 spaces,"PAGE"
  skip 2 lines

before group of proj_no
  let i = i+1

before group of proj_cmd
  print 30 spaces,proj_pe,3 spaces,proj_no;
  print 3 spaces,proj_title[1,40],3 spaces,proj_cmd,3 spaces,"-----"
```

```
page trailer
  skip 2 lines
  print column 47,"******  U N C L A S S I F I E D  ******"
  skip 1 lines
  print 60 spaces,"C-",pageno using "###"

end
```

D. SYSTEM REPORTS

1. System Rollup Summary

/u/plan/rpt.Linda/sysrollnew

This report is the original system summary, where procurement and RDTE funding is indicated by symbols rather than by the actual funding amounts. It has not been used in a MAMP lately, but is likely to be included again in the planning phase of the MAMP process.

```
{System Summary}

database mat_plan end

define
   variable breakwkpkg type integer
   variable break      type integer
   variable total_fund type integer
   variable pagebreak  type integer
   variable worktot    type integer
   variable evalcount  type integer
   variable fstars     type character length 4
   variable ustars     type character length 4
   param[1] cmd        type character length 12
   param[2] pno        type integer
end

output
  left margin 0
  right margin 132
  report to "sysrollnew.out"
end

read into b
  csscontrol_ssn_no csscontrol_type
  ssndesc
  where ssndesc_cmd = cmd
  joining csscontrol_ssn_no = ssndesc_ssn_no
end

read into a
  b
  ssndef
  rollup
  lrpproc_ssn_title
  lrpproc_proc_funded_1 lrpproc_proc_funded_2 lrpproc_proc_funded_3
  lrpproc_proc_funded_4 lrpproc_proc_funded_5 lrpproc_proc_funded_6
```

```
    lrpproc_proc_funded_7 lrpproc_proc_funded_8 lrpproc_proc_funded_9
    lrpproc_proc_funded_10 lrpproc_proc_funded_11 lrpproc_proc_funded_12
    lrpproc_proc_funded_13 lrpproc_proc_funded_14 lrpproc_proc_funded_15
    lrpproc_proc_funded_16 lrpproc_dev_code lrpproc_user_code lrpproc_miss_name
    joining b.csscontrol_ssn_no = optional rollup_ssn_no
        and b.csscontrol_ssn_no = optional ssndef_ssn_no
        and b.csscontrol_ssn_no = optional lrpproc_ssn_no
end

read into d
  mergessn_2
  unique mergessn_wkpkg_indx
  joining a.csscontrol_ssn_no = pseudolink_ssn_no
      and pseudolink_wkpkg_indx = mergessn_wkpkg_indx
end

read into b
  a
  wkpkg_no_indx wkpkg_subcat wkpkg_pe wkpkg_proj wkpkg_task wkpkg_title
  wkpkg_fund_yr0 wkpkg_fund_yr1 wkpkg_fund_yr2 wkpkg_fund_yr3
  wkpkg_fund_yr4 wkpkg_fund_yr5 wkpkg_fund_yr6 wkpkg_fund_yr7
  wkpkg_unfund_yr0 wkpkg_unfund_yr1 wkpkg_unfund_yr2 wkpkg_unfund_yr3
  wkpkg_unfund_yr4 wkpkg_unfund_yr5 wkpkg_unfund_yr6 wkpkg_unfund_yr7
  d.mergessn_2
  joining a.csscontrol_ssn_no = pseudolink_ssn_no
      and pseudolink_wkpkg_indx = wkpkg_no_indx
      and pseudolink_wkpkg_indx = d.mergessn_wkpkg_indx
end

sort by ssndesc_cmd csscontrol_type csscontrol_ssn_no wkpkg_subcat descending
  wkpkg_pe wkpkg_proj wkpkg_no
end

format

page header
  print column 47,"****** C O N F I D E N T I A L ******"
```

```
if pagebreak=0 then begin
  skip 2 lines
  print 20 spaces,"SSN:   ",csscontrol_ssn_no,20 spaces,
        "TITLE:   ",lrpproc_ssn_title
  if rollup_ssn1<>" " then begin
    print 20 spaces,"ASSOC SSN:   ",rollup_ssn1,4 spaces,rollup_ssn2,4 spaces,
          rollup_ssn3,4 spaces,rollup_ssn4,4 spaces,rollup_ssn5,4 spaces,
          rollup_ssn6,4 spaces,rollup_ssn7,4 spaces,rollup_ssn8,4 spaces,
          rollup_ssn9,4 spaces,rollup_ssn10
  end
  else skip 1 line
  skip 1 line
  print "Mission Area:   ",lrpproc_miss_name,column 80,"AMCMSC:   ",
        ssndesc_amcmsc
  print "Mission Area Major System:   ",ssndesc_major_system,
        column 80,"AMC Manager:   ",ssndesc_cmd
  print "Cross Functional Area:   ",ssndesc_cross_func,column 80,
        "TRADOC Proponent:   ",lrpproc_user_code
  print "Acquisition Type:   ";
  if csscontrol_type = 0 then print "Base Case";
  else if csscontrol_type = 1 then print "Type Classified";
  else if csscontrol_type = 2 then print "Development";
  else if csscontrol_type = 3 then print "PIPs";
  else if csscontrol_type = 4 then print "Technology Demonstrators";
  else if csscontrol_type = 5 then print "Broad Base Tech Area";
  else if csscontrol_type = 6 then print "Requirement Above Corps";
  else print " ";
  print column 80,"Req. Document:   ","(",ssndesc_reqdoc_1,
    ",",ssndesc_reqdoc_2,",",ssndesc_reqdoc_3,")"
end
else if pagebreak=1 then begin
  skip 2 lines
  print 20 spaces,"SSN:   ",csscontrol_ssn_no,20 spaces,
       "TITLE:   ",lrpproc_ssn_title
  skip 2 lines
  print column 49,"PRODUCTION AND DEVELOPMENT PROGRAM",5 spaces,"(cont.)"
  print " ----------------------------------------------------------------",
        "----------------------------------------------------------------"
```

```
        print "|",column 67,"| 85  86  87  88  89  90  91  92  93  94  95  96  97  98  99
        print "|-------------------------------------------------------------------",
              "--|-----------------------------------------------------------------|"
      end
      else begin
        skip 2 lines
        print 20 spaces,"SSN:   ",csscontrol_ssn_no,20 spaces,
              "TITLE:   ",lrpproc_ssn_title
        skip 2 lines
        print column 57,"TECH BASE PROGRAMS",5 spaces,"(cont.)"
        print " -------------------------------------------------------------------",
              "-----------------------------------------------------------------"
        print "|",column 67,"| 85  86  87  88  89  90  91  92  93  94  95  96  97  98  99
        print "|-------------------------------------------------------------------",
              "--|-----------------------------------------------------------------|"
      end

    before group of csscontrol_ssn_no
      let evalcount=0
      print " -------------------------------------------------------------------",
            "-----------------------------------------------------------------"
      skip to top of page
      let breakwkpkg=0
      print "DEFICIENCIES:   ";
        if ssndef_def_1>0 then print ssndef_def_1,"-",ssndef_con_1;
        if ssndef_def_2>0 then print ",  ",ssndef_def_2,"-",ssndef_con_2;
        if ssndef_def_3>0 then print ",  ",ssndef_def_3,"-",ssndef_con_3;
        if ssndef_def_4>0 then print ",  ",ssndef_def_4,"-",ssndef_con_4;
        if ssndef_def_5>0 then print ",  ",ssndef_def_5,"-",ssndef_con_5;
        if ssndef_def_6>0 then print ",  ",ssndef_def_6,"-",ssndef_con_6;
        if ssndef_def_7>0 then print ",  ",ssndef_def_7,"-",ssndef_con_7;
        if ssndef_def_8>0 then print ",  ",ssndef_def_8,"-",ssndef_con_8;
        if ssndef_def_9>0 then print ",  ",ssndef_def_9,"-",ssndef_con_9;
        if ssndef_def_10>0 then print ",  ",ssndef_def_10,"-",ssndef_con_10;
        print " "
```

```
after group of wkpkg_no
  if evalcount = 0 then begin
    skip 2 lines
    print "DESCRIPTION: ",ssndesc_text1 clipped
    print 12 spaces,ssndesc_text2 clipped
    print 12 spaces,ssndesc_text3 clipped
    print 12 spaces,ssndesc_text4 clipped
    print 12 spaces,ssndesc_text5 clipped
    skip 3 lines
    print column 49,"PRODUCTION AND DEVELOPMENT PROGRAM"
    print " ------------------------------------------------------------------",
          "-------------------------------------------------------------------"
    print "|",column 67,"| 85  86  87  88  89  90  91  92  93  94  95  96  97  98  99
    print "|-------------------------------------------------------------------",
          "--|-------------------------------------------------------------------|"
    print "| PRODUCTION",column 67,"|";
    let pagebreak=1
    let total_fund=lrpproc_proc_funded_1+lrpproc_proc_funded_2+
                   lrpproc_proc_funded_3+lrpproc_proc_funded_4+
                   lrpproc_proc_funded_5+ lrpproc_proc_funded_6+
                   lrpproc_proc_funded_7 + lrpproc_proc_funded_8+
                   lrpproc_proc_funded_9+ lrpproc_proc_funded_10+
                   lrpproc_proc_funded_11+ lrpproc_proc_funded_12+
                   lrpproc_proc_funded_13+ lrpproc_proc_funded_14+
                   lrpproc_proc_funded_15+ lrpproc_proc_funded_16
    if csscontrol_ssn_no matches "4*" then print column 93, "<STOCK FUNDED>",column 13
    else begin
      if total_fund = 0  then print column 93,"<NOT SCHEDULED>",column 132,"|"
      else begin
        let fstars="****"
        if lrpproc_proc_funded_1 > 0 then print fstars; else print "    ";
        if lrpproc_proc_funded_2 > 0 then print fstars; else print "    ";
        if lrpproc_proc_funded_3 > 0 then print fstars; else print "    ";
        if lrpproc_proc_funded_4 > 0 then print fstars; else print "    ";
        if lrpproc_proc_funded_5 > 0 then print fstars; else print "    ";
        if lrpproc_proc_funded_6 > 0 then print fstars; else print "    ";
        if lrpproc_proc_funded_7 > 0 then print fstars; else print "    ";
```

```
      if lrpproc_proc_funded_8 > 0 then print fstars; else print "    ";
      if lrpproc_proc_funded_9 > 0 then print fstars; else print "    ";
      if lrpproc_proc_funded_10 > 0 then print fstars; else print "    ";
      if lrpproc_proc_funded_11 > 0 then print fstars; else print "    ";
      if lrpproc_proc_funded_12 > 0 then print fstars; else print "    ";
      if lrpproc_proc_funded_13 > 0 then print fstars; else print "    ";
      if lrpproc_proc_funded_14 > 0 then print fstars; else print "    ";
      if lrpproc_proc_funded_15 > 0 then print fstars; else print "    ";
      if lrpproc_proc_funded_16 > 0 then print fstars; else print "    ";
      print "|"
    end
  end
  print "|",column 67,"|",column 132,"|"
  print "|",column 67,"|",column 132,"|"
end
let evalcount =1
if (wkpkg_subcat="6.1" or wkpkg_subcat="6.2" or wkpkg_subcat="6.3A")
   and breakwkpkg=0 then begin
  let breakwkpkg=1
  let pagebreak=2
  print " ------------------------------------------------------------------",
      "------------------------------------------------------------------------"
  skip 1 line
  print column 57,"TECH BASE PROGRAMS"
  print " ------------------------------------------------------------------",
      "------------------------------------------------------------------------"
  print "|",column 67,"| 85  86  87  88  89  90  91  92  93  94  95  96  97  98  99
  print "|-------------------------------------------------------------------",
      "--|---------------------------------------------------------------|"
end
print "| ",wkpkg_pe,1 space,wkpkg_proj,1 space,wkpkg_task[1,3],1 space,
     wkpkg_cmd[1,4],1 space,wkpkg_no,1 space;
if wkpkg_title[25,25]=" " then  let break=25
if wkpkg_title[26,26]=" " then  let break=26
if wkpkg_title[27,27]=" " then  let break=27
if wkpkg_title[28,28]=" " then  let break=28
if wkpkg_title[29,29]=" " then  let break=29
if wkpkg_title[30,30]=" " then  let break=30
```

```
if wkpkg_title[31,31]=" " then  let break=31
if wkpkg_title[32,32]=" " then  let break=32
if wkpkg_title[33,33]=" " then  let break=33
if wkpkg_title[34,34]=" " then  let break=34
if wkpkg_title[35,35]=" " then  let break=35
print wkpkg_title[1,break],column 67,"!";
let worktot = wkpkg_fund_yr1+wkpkg_fund_yr2+wkpkg_fund_yr3+
              wkpkg_fund_yr1+wkpkg_fund_yr1+wkpkg_fund_yr6+
              wkpkg_fund_yr7+wkpkg_unfund_yr1+wkpkg_unfund_yr2+
              wkpkg_unfund_yr3+wkpkg_unfund_yr4+wkpkg_unfund_yr5+
              wkpkg_unfund_yr6+wkpkg_unfund_yr7
if worktot > 0 then begin
  if mergessn_2 = " " then begin
    let fstars = "****"
    let ustars = "----" end
  else begin
    let fstars = "mmmm"
    let ustars = "-m-m"
  end
  if wkpkg_fund_yr1 > 0 then print fstars; else
     if wkpkg_unfund_yr1 > 0 then print ustars; else print "    ";
  if wkpkg_fund_yr2 > 0 then print fstars; else
     if wkpkg_unfund_yr2 > 0 then print ustars; else print "    ";
  if wkpkg_fund_yr3 > 0 then print fstars; else
     if wkpkg_unfund_yr3 > 0 then print ustars; else print "    ";
  if wkpkg_fund_yr4 > 0 then print fstars; else
     if wkpkg_unfund_yr4 > 0 then print ustars; else print "    ";
  if wkpkg_fund_yr5 > 0 then print fstars; else
     if wkpkg_unfund_yr5 > 0 then print ustars; else print "    ";
  if wkpkg_fund_yr6 > 0 then print fstars; else
     if wkpkg_unfund_yr6 > 0 then print ustars; else print "    ";
  if wkpkg_fund_yr7 > 0 then print fstars; else
     if wkpkg_unfund_yr7 > 0 then print ustars; else print "    ";
  print column 132,"!"
end
else print " <completed> ",column 132,"!"
print "!",column 32,wkpkg_title[break+1,60],column 67,"!",column 132,"!"
```

```
after group of csscontrol_ssn_no
  let pagebreak=0

on last record
  print " ------------------------------------------------------------------",
    "------------------------------------------------------------------"
  skip to top of page

page trailer
  if pagebreak>0 then
  print " ------------------------------------------------------------------",
    "------------------------------------------------------------------"
  else skip 1 line
  skip 1 line
  print "Legend:    **** Funded "
  print "           ---- Unfunded"
  print "           mmmm Multi-con. Work Pkg."
  print "           -m-m Unf. Multi-con. Work Pkg.";
  print column 47,"****** C O N F I D E N T I A L ******"
  skip 1 line
  print 60 spaces,pno
  let pno=pno+1

end
```

2. System Funding Summary

/u/plan/rpt.Linda/sysdollars

This report is styled after the System Summary but includes the actual funding amounts rather than using symbols. It is intended to be called for each command since this report is usually interleaved with other system-related reports in the printed MAMP. Two variations of this report, sysdolla and sysdollb, are used to aggregate the PMs and other commands into single reports.

```
<System Summary with Dollar Values inserted>

database mat_plan end

define
   variable hflag       type integer
   variable tbflag      type integer
   variable break       type integer
   variable total_fund  type integer
   variable pagebreak   type integer
   variable linesleft   type integer
   variable worktot     type integer
   variable evalcount   type integer
   variable vb          type character length 1
   param[1] cmd         type character length 12
   param[2] pno         type integer
end

output
  left margin 0
  right margin 132
  report to "sysdollars.out"
end

read into a
  csscontrol_ssn_no csscontrol_type
  ssndesc
  where ssndesc_cmd = cmd
  joining csscontrol_ssn_no = ssndesc_ssn_no
end

read into b
  a
  lrpproc_ssn_no lrpproc_ssn_title
  lrpproc_proc_funded_1 lrpproc_proc_funded_2 lrpproc_proc_funded_3
  lrpproc_proc_funded_4 lrpproc_proc_funded_5 lrpproc_proc_funded_6
  lrpproc_proc_funded_7 lrpproc_proc_funded_8 lrpproc_proc_funded_9
  lrpproc_proc_funded_10 lrpproc_proc_funded_11 lrpproc_proc_funded_12
```

```
    lrpproc_proc_funded_13 lrpproc_proc_funded_14
    lrpproc_proc_unfunded_1 lrpproc_proc_unfunded_2 lrpproc_proc_unfunded_3
    lrpproc_proc_unfunded_4 lrpproc_proc_unfunded_5 lrpproc_proc_unfunded_6
    lrpproc_proc_unfunded_7 lrpproc_proc_unfunded_8 lrpproc_proc_unfunded_9
    lrpproc_proc_unfunded_10 lrpproc_proc_unfunded_11 lrpproc_proc_unfunded_12
    lrpproc_proc_unfunded_13 lrpproc_proc_unfunded_14
    lrpproc_dev_code lrpproc_user_code lrpproc_miss_name
    ssndef
    rollup
    joining a.csscontrol_ssn_no = optional lrpproc_ssn_no
        and a.csscontrol_ssn_no = optional ssndef_ssn_no
        and a.csscontrol_ssn_no = optional rollup_ssn_no
end

read into d
  mergessn_2
  unique mergessn_wkpkg_indx
  joining b.csscontrol_ssn_no = pseudolink_ssn_no
      and pseudolink_wkpkg_indx = mergessn_wkpkg_indx
end

read into a
  b
  wkpkg_no_indx wkpkg_subcat wkpkg_pe wkpkg_proj wkpkg_task wkpkg_title
  wkpkg_fund_yr0 wkpkg_fund_yr1 wkpkg_fund_yr2 wkpkg_fund_yr3
  wkpkg_fund_yr4 wkpkg_fund_yr5 wkpkg_fund_yr6 wkpkg_fund_yr7
  wkpkg_unfund_yr0 wkpkg_unfund_yr1 wkpkg_unfund_yr2 wkpkg_unfund_yr3
  wkpkg_unfund_yr4 wkpkg_unfund_yr5 wkpkg_unfund_yr6 wkpkg_unfund_yr7
  cssprrdte_miss_area
  d.mergessn_2
  joining b.csscontrol_ssn_no = pseudolink_ssn_no
      and pseudolink_wkpkg_indx = wkpkg_no_indx
      and pseudolink_wkpkg_indx = d.mergessn_wkpkg_indx
      and wkpkg_proj_indx = optional cssprrdte_proj_indx
end

sort by csscontrol_ssn_no
        wkpkg_subcat descending wkpkg_pe wkpkg_proj wkpkg_no end
```

```
format

page header
  print column 47,"****** C O N F I D E N T I A L ******"
  skip 2 lines
  let pagebreak = 0
  let linesleft = 53
  let vb = "|"

before group of csscontrol_ssn_no
  skip to top of page
  print 20 spaces,"SSN:   ",csscontrol_ssn_no,
        20 spaces,"TITLE:   ",lrpproc_ssn_title
  let linesleft = linesleft-1
  let tbflag = 0
  if rollup_ssn1<>" " then begin
    skip 1 line
    print 20 spaces,"ASSOC SSN:";
    if rollup_ssn1<>" " then print 4 spaces,rollup_ssn1;
    if rollup_ssn2<>" " then print 4 spaces,rollup_ssn2;
    if rollup_ssn3<>" " then print 4 spaces,rollup_ssn3;
    if rollup_ssn4<>" " then print 4 spaces,rollup_ssn4;
    if rollup_ssn5<>" " then print 4 spaces,rollup_ssn5;
    if rollup_ssn6<>" " then print 4 spaces,rollup_ssn6;
    if rollup_ssn7<>" " then print 4 spaces,rollup_ssn7;
    if rollup_ssn8<>" " then print 4 spaces,rollup_ssn8;
    if rollup_ssn9<>" " then print 4 spaces,rollup_ssn9;
    if rollup_ssn10<>" " then print 4 spaces,rollup_ssn10;
    print " "
    let linesleft = linesleft-2
  end
  skip 1 line
  print "Mission Area:   ",lrpproc_miss_name,column 80,"AMCMSC:   ",ssndesc_amcmsc
  print"Commodity Line:   ",ssndesc_major_system,
      column 80,"AMC Manager:   ",ssndesc_cmd
  print"Cross Functional Area:   ",ssndesc_cross_func
     ,column 80 ,"TRADOC Proponent:   ",lrpproc_user_code
```

```
print "Acquisition Type:   ";
if csscontrol_type = 0 then print "Base Case";
else if csscontrol_type = 1 then print "Type Classified";
else if csscontrol_type = 2 then print "Development";
else if csscontrol_type = 3 then print "PIPs";
else if csscontrol_type = 4 then print "Technology Demonstrators";
else if csscontrol_type = 5 then print "Broad Base Tech Area";
else if csscontrol_type = 6 then print "Requirement Above Corps";
else print " ";
print column 80,"Req. Document:   ","(",ssndesc_reqdoc_1,
    ",",ssndesc_reqdoc_2,",",ssndesc_reqdoc_3,")"
let linesleft = linesleft-5
skip 1 line
print "DEFICIENCIES:   ";
if ssndef_def_1>0 then begin
  print ssndef_def_1;
  if ssndef_con_1<>" " then print "-",ssndef_con_1; else print "  "; end
if ssndef_def_2>0 then begin
  print ", ",ssndef_def_2;
  if ssndef_con_2<>" " then print "-",ssndef_con_2; else print "  "; end
if ssndef_def_3>0 then begin
  print ", ",ssndef_def_3;
  if ssndef_con_3<>" " then print "-",ssndef_con_3; else print "  "; end
if ssndef_def_4>0 then begin
  print ", ",ssndef_def_4;
  if ssndef_con_4<>" " then print "-",ssndef_con_4; else print "  "; end
if ssndef_def_5>0 then begin
  print ", ",ssndef_def_5;
  if ssndef_con_5<>" " then print "-",ssndef_con_5; else print "  "; end
if ssndef_def_6>0 then begin
  print ", ",ssndef_def_6;
  if ssndef_con_6<>" " then print "-",ssndef_con_6; else print "  "; end
if ssndef_def_7>0 then begin
  print ", ",ssndef_def_7;
  if ssndef_con_7<>" " then print "-",ssndef_con_7; else print "  "; end
if ssndef_def_8>0 then begin
  print ", ",ssndef_def_8;
  if ssndef_con_8<>" " then print "-",ssndef_con_8; else print "  "; end
```

```
if ssndef_def_9>0 then begin
  print ",  ",ssndef_def_9;
  if ssndef_con_9<>" " then print "-",ssndef_con_9; else print "   "; end
if ssndef_def_10>0 then begin
  print ",  ",ssndef_def_10;
  if ssndef_con_10<>" " then print "-",ssndef_con_10; else print "   "; end
print " "
skip 1 line
print "DESCRIPTION: ",ssndesc_text1 clipped
print 12 spaces,ssndesc_text2 clipped
print 12 spaces,ssndesc_text3 clipped
print 12 spaces,ssndesc_text4 clipped
print 12 spaces,ssndesc_text5 clipped
let linesleft = linesleft-8
skip 2 lines
print column 56,"PRODUCTION PROGRAM ($K)"
print " ------------------------------------------------------------------------------
print "!",column 18,    "!      93       94       95       96       97       98 !",
      "     85       86       87       88       89       90       91       92 !"
print "!----------------!-------------------------------------------------------!",
      "-------------------------------------------------------!"
print vb," FUNDED AMOUNT",column 18,vb;
let total_fund = lrpproc_proc_funded_1+lrpproc_proc_funded_2+
                 lrpproc_proc_funded_3+lrpproc_proc_funded_4+
                 lrpproc_proc_funded_5+lrpproc_proc_funded_6+
                 lrpproc_proc_funded_7+lrpproc_proc_funded_8+
                 lrpproc_proc_funded_9+lrpproc_proc_funded_10+
                 lrpproc_proc_funded_11+lrpproc_proc_funded_12+
                 lrpproc_proc_funded_13+lrpproc_proc_funded_14+
                 lrpproc_proc_unfunded_1+lrpproc_proc_unfunded_2+
                 lrpproc_proc_unfunded_3+lrpproc_proc_unfunded_4+
                 lrpproc_proc_unfunded_5+lrpproc_proc_unfunded_6+
                 lrpproc_proc_unfunded_7+lrpproc_proc_unfunded_8+
                 lrpproc_proc_unfunded_9+lrpproc_proc_unfunded_10+
                 lrpproc_proc_unfunded_11+lrpproc_proc_unfunded_12+
                 lrpproc_proc_unfunded_13+lrpproc_proc_unfunded_14
```

```
if csscontrol_ssn_no matches "4*" then
     print column 67,vb,column 93,"<STOCK FUNDED>",column 132,vb
else if total_fund = 0  then print column 67,vb,column 93,"<NOT SCHEDULED>",
                                   column 132,vb
else begin
  if lrpproc_proc_funded_9 > 0 then print lrpproc_proc_funded_9*1000
       using "######## "; else print 8 spaces;
  if lrpproc_proc_funded_10 > 0 then print lrpproc_proc_funded_10*1000
       using "######## "; else print 8 spaces;
  if lrpproc_proc_funded_11 > 0 then print lrpproc_proc_funded_11*1000
       using "######## "; else print 8 spaces;
  if lrpproc_proc_funded_12 > 0 then print lrpproc_proc_funded_12*1000
       using "######## "; else print 8 spaces;
  if lrpproc_proc_funded_13 > 0 then print lrpproc_proc_funded_13*1000
       using "######## "; else print 8 spaces;
  if lrpproc_proc_funded_14 > 0 then print lrpproc_proc_funded_14*1000
       using "######## "; else print 8 spaces;
  print vb;
  if lrpproc_proc_funded_1 > 0 then print lrpproc_proc_funded_1*1000
       using "######## "; else print 8 spaces;
  if lrpproc_proc_funded_2 > 0 then print lrpproc_proc_funded_2*1000
       using "######## "; else print 8 spaces;
  if lrpproc_proc_funded_3 > 0 then print lrpproc_proc_funded_3*1000
       using "######## "; else print 8 spaces;
  if lrpproc_proc_funded_4 > 0 then print lrpproc_proc_funded_4*1000
       using "######## "; else print 8 spaces;
  if lrpproc_proc_funded_5 > 0 then print lrpproc_proc_funded_5*1000
       using "######## "; else print 8 spaces;
  if lrpproc_proc_funded_6 > 0 then print lrpproc_proc_funded_6*1000
       using "######## "; else print 8 spaces;
  if lrpproc_proc_funded_7 > 0 then print lrpproc_proc_funded_7*1000
       using "######## "; else print 8 spaces;
  if lrpproc_proc_funded_8 > 0 then print lrpproc_proc_funded_8*1000
       using "######## "; else print 8 spaces;
  print vb
end
print "! UNFUNDED AMOUNT",column 18,vb;
```

```
if lrpproc_proc_unfunded_9>0 then print -lrpproc_proc_unfunded_9*1000
     using "(((((((#)"; else print 8 spaces;
if lrpproc_proc_unfunded_10>0 then print -lrpproc_proc_unfunded_10*1000
     using "(((((((#)"; else print 8 spaces;
if lrpproc_proc_unfunded_11>0 then print -lrpproc_proc_unfunded_11*1000
     using "(((((((#)"; else print 8 spaces;
if lrpproc_proc_unfunded_12>0 then print -lrpproc_proc_unfunded_12*1000
     using "(((((((#)"; else print 8 spaces;
if lrpproc_proc_unfunded_13>0 then print -lrpproc_proc_unfunded_13*1000
     using "(((((((#)"; else print 8 spaces;
if lrpproc_proc_unfunded_14>0 then print -lrpproc_proc_unfunded_14*1000
     using "(((((((#)"; else print 8 spaces;
print vb;
if lrpproc_proc_unfunded_1>0 then print -lrpproc_proc_unfunded_1*1000
     using "(((((((#)"; else print 8 spaces;
if lrpproc_proc_unfunded_2>0 then print -lrpproc_proc_unfunded_2*1000
     using "(((((((#)"; else print 8 spaces;
if lrpproc_proc_unfunded_3>0 then print -lrpproc_proc_unfunded_3*1000
     using "(((((((#)"; else print 8 spaces;
if lrpproc_proc_unfunded_4>0 then print -lrpproc_proc_unfunded_4*1000
     using "(((((((#)"; else print 8 spaces;
if lrpproc_proc_unfunded_5>0 then print -lrpproc_proc_unfunded_5*1000
     using "(((((((#)"; else print 8 spaces;
if lrpproc_proc_unfunded_6>0 then print -lrpproc_proc_unfunded_6*1000
     using "(((((((#)"; else print 8 spaces;
if lrpproc_proc_unfunded_7>0 then print -lrpproc_proc_unfunded_7*1000
     using "(((((((#)"; else print 8 spaces;
if lrpproc_proc_unfunded_8>0 then print -lrpproc_proc_unfunded_8*1000
     using "(((((((#)"; else print 8 spaces;
print vb
print " ------------------------------------------------------------------------------
let linesleft = linesleft-9
skip 2 lines
if (wkpkg_subcat="6.1" or wkpkg_subcat="6.2" or wkpkg_subcat="6.3A") then begin
  print column 55,"TECH BASE PROGRAMS ($K)"
  let tbflag=1 end
else print column 55,"DEVELOPMENT PROGRAMS ($K)"
print " ------------------------------------------------------------------------------
```

```
      print vb,column 64,"|   |",
            "      85       86       87       88       89       90       91       92 |"
      print "|-------------------------------------------------------------------------|--|",
            "-------------------------------------------------------------------------|"
      let linesleft = linesleft-6

    before group of wkpkg_no
      if linesleft < 3 then begin
        print " ------------------------------------------------------------------------------------
        skip to top of page
        print 20 spaces,"SSN:    ",csscontrol_ssn_no,
              20 spaces,"TITLE:   ",lrpproc_ssn_title
        skip 2 lines
        if (wkpkg_subcat="6.1" or wkpkg_subcat="6.2" or wkpkg_subcat="6.3A") then begin
          print column 55,"TECH BASE PROGRAMS ($K)"
          let tbflag = 1 end
        else print column 55,"DEVELOPMENT PROGRAMS ($K)"
        print " ------------------------------------------------------------------------------------
        print vb,column 64,"|   |",
            "      85       86       87       88       89       90       91       92 |"
        print "|-------------------------------------------------------------------------|--|",
            "-------------------------------------------------------------------------|"
        let linesleft = linesleft-7
      end
      else if tbflag = 0 and
        (wkpkg_subcat="6.1" or wkpkg_subcat="6.2" or wkpkg_subcat="6.3A") then begin
        let tbflag = 1
        print " ------------------------------------------------------------------------------------
        let linesleft = linesleft-1
        if linesleft < 9 then begin
          skip to top of page
          print 20 spaces,"SSN:    ",csscontrol_ssn_no,
                20 spaces,"TITLE:   ",lrpproc_ssn_title
          let linesleft = linesleft-1
        end
        skip 2 lines
        print column 55,"TECH BASE PROGRAMS ($K)"
        print " ------------------------------------------------------------------------------------
```

```
    print vb,column 64,"|   |",
        "      85       86       87       88       89       90       91       92 |"
    print "|-------------------------------------------------------------------|--|",
        "-------------------------------------------------------------------|"
    let linesleft = linesleft-6
  end
  print "| ",wkpkg_pe,1 space,wkpkg_proj,1 space,wkpkg_task[1,3],1 space,wkpkg_cmd[1,4]
  let break = 33
  if wkpkg_title[25,25] = " " then  let break = 25
  if wkpkg_title[26,26] = " " then  let break = 26
  if wkpkg_title[27,27] = " " then  let break = 27
  if wkpkg_title[28,28] = " " then  let break = 28
  if wkpkg_title[29,29] = " " then  let break = 29
  if wkpkg_title[30,30] = " " then  let break = 30
  if wkpkg_title[31,31] = " " then  let break = 31
  if wkpkg_title[32,32] = " " then  let break = 32
  if wkpkg_title[33,33] = " " then  let break = 33
  print wkpkg_title[1,break],column 64,vb;
  if cssprrdte_miss_area="CSS" then print "*"; else print " ";
  if mergessn_2<>" " then print "m"; else print " ";
  print vb;
  let worktot = wkpkg_fund_yr0 + wkpkg_fund_yr1 + wkpkg_fund_yr2 +
                wkpkg_fund_yr3 + wkpkg_fund_yr4 + wkpkg_fund_yr5 +
                wkpkg_fund_yr6 + wkpkg_fund_yr7 +
                wkpkg_unfund_yr0 + wkpkg_unfund_yr1 + wkpkg_unfund_yr2 +
                wkpkg_unfund_yr3 + wkpkg_unfund_yr4 + wkpkg_unfund_yr5 +
                wkpkg_unfund_yr6 + wkpkg_unfund_yr7
  if worktot > 0 then begin
    if wkpkg_fund_yr0>0 then print wkpkg_fund_yr0 using "######## ";
                        else print 8 spaces;
    if wkpkg_fund_yr1>0 then print wkpkg_fund_yr1 using "######## ";
                        else print 8 spaces;
    if wkpkg_fund_yr2>0 then print wkpkg_fund_yr2 using "######## ";
                        else print 8 spaces;
    if wkpkg_fund_yr3>0 then print wkpkg_fund_yr3 using "######## ";
                        else print 8 spaces;
    if wkpkg_fund_yr4>0 then print wkpkg_fund_yr4 using "######## ";
                        else print 8 spaces;
```

```
    if wkpkg_fund_yr5>0 then print wkpkg_fund_yr5 using "####### ";
                        else print 8 spaces;
    if wkpkg_fund_yr6>0 then print wkpkg_fund_yr6 using "####### ";
                        else print 8 spaces;
    if wkpkg_fund_yr7>0 then print wkpkg_fund_yr7 using "####### ";
                        else print 8 spaces;
    print column 132,vb
  end
  else print "      <completed>",column 132,vb
  print vb,column 32;
  if break > 29 then print wkpkg_title[break+1,60];
  else print wkpkg_title[break+1,break+31];
  print column 64,"|  |";
  if wkpkg_unfund_yr0>0 then print -wkpkg_unfund_yr0 using "(######)";
                        else print 8 spaces;
  if wkpkg_unfund_yr1>0 then print -wkpkg_unfund_yr1 using "(######)";
                        else print 8 spaces;
  if wkpkg_unfund_yr2>0 then print -wkpkg_unfund_yr2 using "(######)";
                        else print 8 spaces;
  if wkpkg_unfund_yr3>0 then print -wkpkg_unfund_yr3 using "(######)";
                        else print 8 spaces;
  if wkpkg_unfund_yr4>0 then print -wkpkg_unfund_yr4 using "(######)";
                        else print 8 spaces;
  if wkpkg_unfund_yr5>0 then print -wkpkg_unfund_yr5 using "(######)";
                        else print 8 spaces;
  if wkpkg_unfund_yr6>0 then print -wkpkg_unfund_yr6 using "(######)";
                        else print 8 spaces;
  if wkpkg_unfund_yr7>0 then print -wkpkg_unfund_yr7 using "(######)";
                        else print 8 spaces;
  print column 132,vb
  let linesleft = linesleft-2

after group of csscontrol_ssn_no
  print " ------------------------------------------------------------------------------
```

```
page trailer
  skip 1 line
  print "Legend:",column 47,"****** C O N F I D E N T I A L ******"
  print " #  - CSS Funded Workpackage"
  print " m  - Workpackage Supports Multiple Systems",column 60,pno
  let pno = pno+1

end
```

3. System Resources Summary

(w/o active 6.3B/6.4 Workpackages)

/u/plan/rpt.Linda/sysres

This report produces a listing of systems which should but do not have identified 6.3B or 6.4 workpackages. The systems included are classified as developmental or PIP. If printed in the report, the system will have no 6.3B or higher workpackages. Any funding shown represents tech base funding only. Two variations of this report, sysresa and sysresb, are used to prepare reports for the PMs and other command sections of the System Volume of the MAMP.

```
{ System Resource Report with RDTE Funding Chart }

database mat_plan end

define
  variable wkp   type integer
  variable tbo   type integer
  variable pgend type integer
  variable f85 type float
  variable f86 type float
  variable f87 type float
  variable f88 type float
  variable f89 type float
  variable f90 type float
  variable f91 type float
  variable f92 type float
  variable u85 type float
  variable u86 type float
  variable u87 type float
  variable u88 type float
  variable u89 type float
  variable u90 type float
  variable u91 type float
  variable u92 type float
  param[1] cmd   type character length 12
  param[2] pno   type integer
end

output
  left margin 0
  right margin 132
  report to "sysres.out"
end

read into a
  csscontrol_ssn_no csscontrol_type
  ssndesc_cmd
  lrpproc_ssn_title lrpproc_miss_name
```

```
  where csscontrol_type<>0 and csscontrol_type<>1 and csscontrol_type<>4
    and csscontrol_type<>5 and ssndesc_cmd = cmd
{ exclude base case and type classified and tech demo and BBTA systems }
  joining csscontrol_ssn_no = ssndesc_ssn_no
      and csscontrol_ssn_no = optional lrpproc_ssn_no
end

read into c
  a
  wkpkg_no_indx wkpkg_subcat
  wkpkg_fund_yr0 wkpkg_fund_yr1  wkpkg_fund_yr2 wkpkg_fund_yr3
  wkpkg_fund_yr4 wkpkg_fund_yr5 wkpkg_fund_yr6 wkpkg_fund_yr7
  wkpkg_unfund_yr0 wkpkg_unfund_yr1 wkpkg_unfund_yr2 wkpkg_unfund_yr3
  wkpkg_unfund_yr4 wkpkg_unfund_yr5 wkpkg_unfund_yr6 wkpkg_unfund_yr7
  joining a.csscontrol_ssn_no = optional pseudolink_ssn_no
      and pseudolink_wkpkg_indx = optional wkpkg_no_indx
end

sort by ssndesc_cmd csscontrol_ssn_no end

format

page header
  print column 47,"******  U N C L A S S I F I E D  ******"
  skip 2 lines
  print column 39, SYSTEMS WITHOUT ACTIVE 6.3B/6.4 WORKPACKAGES FOR ",ssndesc_cmd
  skip 3 lines
  print column 90,"DEVELOPMENT SCHEDULE"
  print " ------------------------------------------------------------------",
        "-------------------------------------------------------------- "
  print "!  SSN",10 spaces,"TITLE",column 61,"DA MA",column 67,
        "!  FY85     FY86     FY87     FY88     FY89     FY90     FY91     FY92  !"
  print "!-----------------------------------------------------------------",
        "!-------------------------------------------------------------!"
  print "!",column 67,"!",column 132, "!"
  let pgend = 0
```

```
page trailer
  if pgend = 0 then begin
    print "!",column 67,"!",column 132, "!"
    print " ------------------------------------------------------------------",
          "------------------------------------------------------------------ "
  end
  else skip 2 lines
  skip 2 lines
  print "Legend:",column 47,"******  U N C L A S S I F I E D  ******"
  print "******  Funded (Tech Base Only)"
  print "*-*-*-  Partial Funded"
  print "------  Unfunded",column 60,pno
  let pno = pno+1

before group of ssndesc_cmd
  skip to top of page

after group of ssndesc_cmd
  let pgend = 1
  print "!",column 67,"!",column 132,"!"
  print " ------------------------------------------------------------------",
        "------------------------------------------------------------------ "

before group of csscontrol_ssn_no
  let wkp = 1
  let tbo = 1
  let f85 = 0
  let f86 = 0
  let f87 = 0
  let f88 = 0
  let f89 = 0
  let f90 = 0
  let f91 = 0
  let f92 = 0
  let u85 = 0
  let u86 = 0
  let u87 = 0
  let u88 = 0
```

```
        let u89 = 0
        let u90 = 0
        let u91 = 0
        let u92 = 0

      after group of csscontrol_ssn_no
        if wkp=1 or tbo=1 then begin
          print "! ",csscontrol_ssn_no,2 spaces,lrpproc_ssn_title,1 space,
                lrpproc_miss_name[1,5],column 67,"!";
          if f85>0 then begin
            if u85>0 then print "*-*-*-*-*"; else print "********"; end
            else if u85>0 then print "--------"; else print "        ";
          if f86>0 then begin
            if u86>0 then print "*-*-*-*-*"; else print "********"; end
            else if u86>0 then print "--------"; else print "        ";
          if f87>0 then begin
            if u87>0 then print "*-*-*-*-*"; else print "********"; end
            else if u87>0 then print "--------"; else print "        ";
          if f88>0 then begin
            if u88>0 then print "*-*-*-*-*"; else print "********"; end
            else if u88>0 then print "--------"; else print "        ";
          if f89>0 then begin
            if u89>0 then print "*-*-*-*-*"; else print "********"; end
            else if u89>0 then print "--------"; else print "        ";
          if f90>0 then begin
            if u90>0 then print "*-*-*-*-*"; else print "********"; end
            else if u90>0 then print "--------"; else print "        ";
          if f91>0 then begin
            if u91>0 then print "*-*-*-*-*"; else print "********"; end
            else if u91>0 then print "--------"; else print "        ";
          if f92>0 then begin
            if u92>0 then print "*-*-*-*-*"; else print "********"; end
            else if u92>0 then print "--------"; else print "        ";
          print column 132,"!"
        end
```

```
on every record
  if wkpkg_no<>" " then let wkp = 0
  if wkpkg_subcat="6.3B" or wkpkg_subcat="6.4" or wkpkg_subcat="6.5"
      or wkpkg_subcat="6.7" then let tbo=0
  let f85 = f85 + wkpkg_fund_yr0
  let u85 = u85 + wkpkg_unfund_yr0
  let f86 = f86 + wkpkg_fund_yr1
  let u86 = u86 + wkpkg_unfund_yr1
  let f87 = f87 + wkpkg_fund_yr2
  let u87 = u87 + wkpkg_unfund_yr2
  let f88 = f88 + wkpkg_fund_yr3
  let u88 = u88 + wkpkg_unfund_yr3
  let f89 = f89 + wkpkg_fund_yr4
  let u89 = u89 + wkpkg_unfund_yr4
  let f90 = f90 + wkpkg_fund_yr5
  let u90 = u90 + wkpkg_unfund_yr5
  let f91 = f91 + wkpkg_fund_yr6
  let u91 = u91 + wkpkg_unfund_yr6
  let f92 = f92 + wkpkg_fund_yr7
  let u92 = u92 + wkpkg_unfund_yr7

end
```

4. Base Case/Type Classified Streamlined Summary

/u/plan/rpt.Linda/basetc

This report produces streamlined summaries of base case and type classified systems which typically do not have RDTE programs. The system procurement schedule and BDP deficiencies are included in the report. Two variations on this report, basetca and basetcb, are used to prepare the summaries for the PMs and other command sections of the System Volume.

```
{ Streamlined Base Case and Type Classified Systems }
{ This Report Produces a Chart of Funding. }

database mat_plan end

define
  variable total_fund type long
  variable eval       type integer
  param[1] cmd        type character length 12
  param[2] pno        type integer
end

output
  left margin 0
  right margin 132
  report to "basetc.out"
end

read into a
  csscontrol_ssn_no csscontrol_type
  ssndesc_cmd
  where (csscontrol_type = 0 or csscontrol_type = 1) and ssndesc_cmd = cmd
  joining csscontrol_ssn_no = ssndesc_ssn_no
end

read into b
  a
  ssndef
  lrpproc_miss_name lrpproc_ssn_title
  lrpproc_proc_funded_1  lrpproc_proc_funded_2  lrpproc_proc_funded_3
  lrpproc_proc_funded_4  lrpproc_proc_funded_5  lrpproc_proc_funded_6
  lrpproc_proc_funded_7  lrpproc_proc_funded_8  lrpproc_proc_funded_9
  lrpproc_proc_funded_10 lrpproc_proc_funded_11 lrpproc_proc_funded_12
  lrpproc_proc_funded_13 lrpproc_proc_funded_14 lrpproc_proc_funded_15
  lrpproc_proc_funded_16
  lrpproc_proc_unfunded_1  lrpproc_proc_unfunded_2  lrpproc_proc_unfunded_3
  lrpproc_proc_unfunded_4  lrpproc_proc_unfunded_5  lrpproc_proc_unfunded_6
  lrpproc_proc_unfunded_7  lrpproc_proc_unfunded_8  lrpproc_proc_unfunded_9
```

```
    lrpproc_proc_unfunded_10 lrpproc_proc_unfunded_11 lrpproc_proc_unfunded_12
    lrpproc_proc_unfunded_13 lrpproc_proc_unfunded_14 lrpproc_proc_unfunded_15
    lrpproc_proc_unfunded_16
    joining a.csscontrol_ssn_no = optional lrpproc_ssn_no
        and a.csscontrol_ssn_no = optional ssndef_ssn_no
end

sort by  csscontrol_type csscontrol_ssn_no      end

format

page header
   let eval = 0
   print column 48,"*****  C O N F I D E N T I A L  *****"
   skip 2 lines
   print column 39,"STREAMLINED SUMMARY OF ";
   if csscontrol_type = 0 then print "BASE CASE";
   else if csscontrol_type = 1 then print "TYPE CLASSIFIED";
   print " SYSTEMS FOR ",ssndesc_cmd
   skip 3 lines
   print column 90,"PROCUREMENT SCHEDULE"
   print " ------------------------------------------------------------------",
         "------------------------------------------------------------ "
   print "|  SSN",10 spaces,"TITLE/DEFICIENCIES",column 61,"DA MA",column 67,
         "| 85  86  87  88  89  90  91  92  93  94  95  96  97  98  99  00 |"
   print "|-----------------------------------------------------------------",
         "|-------------------------------------------------------------|"
   print "|",column 67,"|",column 132,  "|"

before group of csscontrol_type
   if eval > 0 then begin
     print " ------------------------------------------------------------------",
           "------------------------------------------------------------ "
     skip to top of page
   end

on last record
   if eval > 0 then
```

```
        print " ------------------------------------------------------------------------",
              "------------------------------------------------------------------------ "

on every record
   let eval = eval+1
   let total_fund =lrpproc_proc_funded_1+lrpproc_proc_funded_2
     +lrpproc_proc_funded_3+lrpproc_proc_funded_4+lrpproc_proc_funded_5
     +lrpproc_proc_funded_6+lrpproc_proc_funded_7+lrpproc_proc_funded_8
     +lrpproc_proc_funded_9+lrpproc_proc_funded_10+lrpproc_proc_funded_11
     +lrpproc_proc_funded_12+lrpproc_proc_funded_13+lrpproc_proc_funded_14
     +lrpproc_proc_funded_15+lrpproc_proc_funded_16
     +lrpproc_proc_unfunded_1+lrpproc_proc_unfunded_2
     +lrpproc_proc_unfunded_3+lrpproc_proc_unfunded_4+lrpproc_proc_unfunded_5
     +lrpproc_proc_unfunded_6+lrpproc_proc_unfunded_7+lrpproc_proc_unfunded_8
     +lrpproc_proc_unfunded_9+lrpproc_proc_unfunded_10+lrpproc_proc_unfunded_11
     +lrpproc_proc_unfunded_12+lrpproc_proc_unfunded_13+lrpproc_proc_unfunded_14
     +lrpproc_proc_unfunded_15+lrpproc_proc_unfunded_16
   print "! ",csscontrol_ssn_no,2 spaces,lrpproc_ssn_title,1 space,
         lrpproc_miss_name[1,5],"!";
   if csscontrol_ssn_no matches "4*" then print column 93,
        "<STOCK FUNDED>",column 132,"!"
   else if total_fund = 0  then print column 93,"<NOT SCHEDULED>",column 132,"!"
   else begin
     if lrpproc_proc_funded_1 > 0 then begin
        if lrpproc_proc_unfunded_1 = 0 then print "****";
        else print "*-*-"; end
     else if lrpproc_proc_unfunded_1 > 0 then print "----"; else print "    ";
     if lrpproc_proc_funded_2 > 0 then begin
        if lrpproc_proc_unfunded_2 = 0 then print "****";
        else print "*-*-"; end
     else if lrpproc_proc_unfunded_2 > 0 then print "----"; else print "    ";
     if lrpproc_proc_funded_3 > 0 then begin
        if lrpproc_proc_unfunded_3 = 0 then print "****";
        else print "*-*-"; end
     else if lrpproc_proc_unfunded_3 > 0 then print "----"; else print "    ";
     if lrpproc_proc_funded_4 > 0 then begin
        if lrpproc_proc_unfunded_4 = 0 then print "****";
        else print "*-*-"; end
```

```
else if lrpproc_proc_unfunded_4 > 0 then print "-----"; else print "     ";
if lrpproc_proc_funded_5 > 0 then begin
   if lrpproc_proc_unfunded_5 = 0 then print "****";
   else print "*-*-"; end
else if lrpproc_proc_unfunded_5 > 0 then print "-----"; else print "     ";
if lrpproc_proc_funded_6 > 0 then begin
   if lrpproc_proc_unfunded_6 = 0 then print "****";
   else print "*-*-"; end
else if lrpproc_proc_unfunded_6 > 0 then print "-----"; else print "     ";
if lrpproc_proc_funded_7 > 0 then begin
   if lrpproc_proc_unfunded_7 = 0 then print "****";
   else print "*-*-"; end
else if lrpproc_proc_unfunded_7 > 0 then print "-----"; else print "     ";
if lrpproc_proc_funded_8 > 0 then begin
   if lrpproc_proc_unfunded_8 = 0 then print "****";
   else print "*-*-"; end
else if lrpproc_proc_unfunded_8 > 0 then print "-----"; else print "     ";
if lrpproc_proc_funded_9 > 0 then begin
   if lrpproc_proc_unfunded_9 = 0 then print "****";
   else print "*-*-"; end
else if lrpproc_proc_unfunded_9 > 0 then print "-----"; else print "     ";
if lrpproc_proc_funded_10 > 0 then begin
   if lrpproc_proc_unfunded_10 = 0 then print "****";
   else print "*-*-"; end
else if lrpproc_proc_unfunded_10 > 0 then print "-----"; else print "     ";
if lrpproc_proc_funded_11 > 0 then begin
   if lrpproc_proc_unfunded_11 = 0 then print "****";
   else print "*-*-"; end
else if lrpproc_proc_unfunded_11 > 0 then print "-----"; else print "     ";
if lrpproc_proc_funded_12 > 0 then begin
   if lrpproc_proc_unfunded_12 = 0 then print "****";
   else print "*-*-"; end
else if lrpproc_proc_unfunded_12 > 0 then print "-----"; else print "     ";
if lrpproc_proc_funded_13 > 0 then begin
   if lrpproc_proc_unfunded_13 = 0 then print "****";
   else print "*-*-"; end
else if lrpproc_proc_unfunded_13 > 0 then print "-----"; else print "     ";
```

```
    if lrpproc_proc_funded_14 > 0 then begin
       if lrpproc_proc_unfunded_14 = 0 then print "****";
       else print "*-*-"; end
    else if lrpproc_proc_unfunded_14 > 0 then print "----"; else print "    ";
    if lrpproc_proc_funded_15 > 0 then begin
       if lrpproc_proc_unfunded_15 = 0 then print "****";
       else print "*-*-"; end
    else if lrpproc_proc_unfunded_15 > 0 then print "----"; else print "    ";
    if lrpproc_proc_funded_16 > 0 then begin
       if lrpproc_proc_unfunded_16 = 0 then print "****|"
       else print "*-*-|" end
    else if lrpproc_proc_unfunded_16 > 0 then print "----|" else print "    |"
end
print "|       ";
if ssndef_def_1>0 then begin
  print ssndef_def_1 using " ####";
  if ssndef_con_1<>" " then print "-",ssndef_con_1; else print "  "; end
if ssndef_def_2>0 then begin
  print ssndef_def_2 using " ####";
  if ssndef_con_2<>" " then print "-",ssndef_con_2; else print "  "; end
if ssndef_def_3>0 then begin
  print ssndef_def_3 using " ####";
  if ssndef_con_3<>" " then print "-",ssndef_con_3; else print "  "; end
if ssndef_def_4>0 then begin
  print ssndef_def_4 using " ####";
  if ssndef_con_4<>" " then print "-",ssndef_con_4; else print "  "; end
if ssndef_def_5>0 then begin
  print ssndef_def_5 using " ####";
  if ssndef_con_5<>" " then print "-",ssndef_con_5; else print "  "; end
if ssndef_def_6>0 then begin
  print ssndef_def_6 using " ####";
  if ssndef_con_6<>" " then print "-",ssndef_con_6; else print "  "; end
if ssndef_def_7>0 then begin
  print ssndef_def_7 using " ####";
  if ssndef_con_7<>" " then print "-",ssndef_con_7; else print "  "; end
if ssndef_def_8>0 then begin
  print ssndef_def_8 using " ####";
  if ssndef_con_8<>" " then print "-",ssndef_con_8; else print "  "; end
```

```
        print column 67,"|",column 132,  "|"
        print "|",column 67,"|",column 132,  "|"

        if eval = 13 then begin
          print " ------------------------------------------------------------------",
                "------------------------------------------------------------------ "
          skip to top of page
        end

      page trailer
        skip 1 line
        print "Legend:",column 48,"*****  C O N F I D E N T I A L  *****"
        print "   **** - Funded Procurement"
        print "   *--*- - Partial Funded"
        print "   ---- - Unfunded",column 60,pno
        let pno = pno+1

      end
```

5. System Index

/u/plan/rpt.Linda/sysindex

This report produces an index for systems in csscontrol sorted by system title. The page number locations are marked with three hyphens. After the other system reports have been prepared, then the actual page numbers should be entered using the system editor (vi). A similar index, sorted by SSN is produced by the companion report sysindex1.

```
database mat_plan end

output
  left margin 0
  right margin 132
  report to "sysindex.out"
end

read into a
  csscontrol_ssn_no
  lrpproc_miss_name
  lrpproc_ssn_title
  ssndesc_cmd
  joining csscontrol_ssn_no = optional lrpproc_ssn_no
      and csscontrol_ssn_no = optional ssndesc_ssn_no
end

sort by lrpproc_ssn_title csscontrol_ssn_no end

format

before group of csscontrol_ssn_no
  print 20 spaces, csscontrol_ssn_no, 4 spaces, lrpproc_miss_name,
              4 spaces, lrpproc_ssn_title, 4 spaces, ssndesc_cmd, 4 spaces, "---"


page header
  print column 47, "******  U N C L A S S I F I E D  ******"
  skip 2 lines
  print column 35, "COMBAT SERVICE SUPPORT SYSTEMS IN ALPHABETICAL ORDER BY TITLE"
  skip 2 lines
  print 21 spaces, "SSN", 6 spaces, "DA MA", 19 spaces, "SYSTEM TITLE",
        28 spaces, "COMMAND", 9 spaces, "PAGE"
  skip 2 lines
```

```
page trailer
  skip 2 lines
  print column 47,"******  U N C L A S S I F I E D  ******"
  skip 1 line
  print 62 spaces, "A-", pageno using "###"

end
```

E. WORKPACKAGE REPORTS

1. Workpackage Appendix

/u/plan/rpt.Linda/wrkapdxa

This report prints a workpackage summary for all workpackages funded by projects included in cssprrdte. The summary includes funding data, text description and workplan, and related CSS systems. Wrkapdxa prints pages "A-#" while wrkapdxb prints pages "B-#". Both require a command name as a parameter. Variations wrkapdxc and wrkapdxd are used for the PMs and other command sections of the Appendix. Both variations print pages "B-#"

THE BDM CORPORATION

```
{ Work Package Appendix }

database mat_plan end

define
  variable  clchar     type character length 1
  variable  scnt       type integer
  param[1]  cmd        type character length 12
  param[2]  pno        type integer
end

output
  left margin 0
  report to "wrkapdxa.out"
end

read into a
  wkpkg_no_indx wkpkg_lab wkpkg_title wkpkg_pe wkpkg_proj wkpkg_task
  wkpkg_fund_yr0 wkpkg_fund_yr1 wkpkg_fund_yr2 wkpkg_fund_yr3
  wkpkg_fund_yr4 wkpkg_fund_yr5 wkpkg_fund_yr6 wkpkg_fund_yr7
  wkpkg_unfund_yr0 wkpkg_unfund_yr1 wkpkg_unfund_yr2 wkpkg_unfund_yr3
  wkpkg_unfund_yr4 wkpkg_unfund_yr5 wkpkg_unfund_yr6 wkpkg_unfund_yr7
  wkpkg_trans_date
  cssprrdte_miss_area
  where wkpkg_cmd=cmd
  joining wkpkg_proj_indx = cssprrdte_proj_indx
end

read into b
  a
  wkdesc_text0 wkdesc_text1 wkdesc_text2 wkdesc_text3 wkdesc_text4
  wkdesc_text5 wkdesc_text6 wkdesc_text7 wkdesc_text8 wkdesc_text9
  wks86_text0 wks86_text1 wks86_text2 wks86_text3 wks86_text4
  wks86_text5 wks86_text6 wks86_text7 wks86_text8 wks86_text9
  flag
  joining a.wkpkg_no_indx = optional wkdesc_wkpkg_indx
      and a.wkpkg_no_indx = optional wks86_wkpkg_indx
      and a.wkpkg_no_indx = optional flag_wkpkg_indx
end
```

```
read into c
  pseudolink
  lrpproc_ssn_title lrpproc_miss_name
  joining b.wkpkg_no_indx = pseudolink_wkpkg_indx
      and pseudolink_ssn_no = lrpproc_ssn_no
      and pseudolink_ssn_no = csscontrol_ssn_no
end

read into a
  b
  c.pseudolink_ssn_no c.lrpproc_ssn_title c.lrpproc_miss_name
  joining b.wkpkg_no_indx = optional c.pseudolink_wkpkg_indx
end

sort by wkpkg_pe wkpkg_proj wkpkg_task wkpkg_no pseudolink_ssn_no end

format

page header
  let clchar = " "
  if wkdesc_text0[1,3]="(S)" or wks86_text0[1,3]="(S)" then begin
    let clchar = "S"
    print column 50,"******  S E C R E T  ******"
  end
  else if wkdesc_text0[1,3]="(C)" or wks86_text0[1,3]="(C)" then begin
    let clchar = "C"
    print column 45,"******  C O N F I D E N T I A L  ******"
  end
  else print column 45,"******  U N C L A S S I F I E D  ******"
  skip 2 lines
  print column 45,"WORKPACKAGE SUMMARY DATA FOR ",wkpkg_cmd clipped;
  if (wkpkg_lab<>" " and wkpkg_lab<>wkpkg_cmd) then print " / ",wkpkg_lab
  else print ""
  skip 2 lines

page trailer
  if clchar = "S" then print column 50,"******  S E C R E T  ******"
  else if clchar = "C" then print column 45,"******  C O N F I D E N T I A L  ******"
```

```
      else print column 45,"******  U N C L A S S I F I E D  ******"
      skip 1 line
      print column 64,"A-",pno using "###"
      let pno = pno+1

    before group of wkpkg_no
      skip to top of page
      let scnt = 0
      print "PE/Project/Task: ",wkpkg_pe,1 space,wkpkg_proj,1 space,
            wkpkg_task clipped," : WP ",wkpkg_no,column 67,"Title: ",wkpkg_title
      print "Funded by: ",cssprrdte_miss_area;
      print column 30,"Transition Date: ",wkpkg_trans_date
      skip 3 lines
      print "            FY85  FY86  FY87  FY88  FY89  FY90  FY91  FY92";
      print column 90,"Description"
      print "            ----  ----  ----  ----  ----  ----  ----  ----"
      print "Funded:    ",wkpkg_fund_yr0 using "######",
                         wkpkg_fund_yr1 using "######",
                         wkpkg_fund_yr2 using "######",
                         wkpkg_fund_yr3 using "######",
                         wkpkg_fund_yr4 using "######",
                         wkpkg_fund_yr5 using "######",
                         wkpkg_fund_yr6 using "######",
                         wkpkg_fund_yr7 using "######";
      print column 72,wkdesc_text0
      print "Unfunded:  ",wkpkg_unfund_yr0 using "######",
                         wkpkg_unfund_yr1 using "######",
                         wkpkg_unfund_yr2 using "######",
                         wkpkg_unfund_yr3 using "######",
                         wkpkg_unfund_yr4 using "######",
                         wkpkg_unfund_yr5 using "######",
                         wkpkg_unfund_yr6 using "######",
                         wkpkg_unfund_yr7 using "######";
      print column 72, wkdesc_text1
      print column 72, wkdesc_text2
      print "Flags";
      print column 72, wkdesc_text3
      if flag1_n<>" " then begin
```

```
  print flag1_n,5 spaces;
  print flag1_0 using "######",flag1_1 using "######",
        flag1_2 using "######",flag1_3 using "######",
        flag1_4 using "######",flag1_5 using "######",
        flag1_6 using "######",flag1_7 using "######";
end
print column 72, wkdesc_text4
if flag2_n<>" " then begin
  print flag2_n,5 spaces;
  print flag2_0 using "######",flag2_1 using "######",
        flag2_2 using "######",flag2_3 using "######",
        flag2_4 using "######",flag2_5 using "######",
        flag2_6 using "######",flag2_7 using "######";
end
print column 72, wkdesc_text5
if flag3_n<>" " then begin
  print flag3_n,5 spaces;
  print flag3_0 using "######",flag3_1 using "######",
        flag3_2 using "######",flag3_3 using "######",
        flag3_4 using "######",flag3_5 using "######",
        flag3_6 using "######",flag3_7 using "######";
end
print column 72, wkdesc_text6
if flag4_n<>" " then begin
  print flag4_n,5 spaces;
  print flag4_0 using "######",flag4_1 using "######",
        flag4_2 using "######",flag4_3 using "######",
        flag4_4 using "######",flag4_5 using "######",
        flag4_6 using "######",flag4_7 using "######";
end
print column 72, wkdesc_text7
if flag5_n<>" " then begin
  print flag5_n,5 spaces;
  print flag5_0 using "######",flag5_1 using "######",
        flag5_2 using "######",flag5_3 using "######",
        flag5_4 using "######",flag5_5 using "######",
        flag5_6 using "######",flag5_7 using "######";
end
```

```
        print column 72, wkdesc_text8
        if flag6_n<>" " then begin
          print flag6_n,5 spaces;
          print flag6_0 using "######",flag6_1 using "######",
                flag6_2 using "######",flag6_3 using "######",
                flag6_4 using "######",flag6_5 using "######",
                flag6_6 using "######",flag6_7 using "######";
        end
        print column 72, wkdesc_text9
        skip 3 lines
        print column 10,"Systems Supported (SSN/TITLE/DA MA)";
        print column 90,"1986 Workplan"
        skip 1 line

      before group of pseudolink_ssn_no
        if scnt<15 then print pseudolink_ssn_no,2 spaces,lrpproc_ssn_title,1 space,
             lrpproc_miss_name,column 72;
        let scnt = scnt+1
        if scnt<11 then begin
          if scnt = 1 then print wks86_text0
          else if scnt = 2 then print wks86_text1
          else if scnt = 3 then print wks86_text2
          else if scnt = 4 then print wks86_text3
          else if scnt = 5 then print wks86_text4
          else if scnt = 6 then print wks86_text5
          else if scnt = 7 then print wks86_text6
          else if scnt = 8 then print wks86_text7
          else if scnt = 9 then print wks86_text8
          else if scnt = 10 then print wks86_text9
        end
        else print ""

      after group of wkpkg_no
        if scnt=0 then begin
          print column 72,wks86_text0
          print column 72,wks86_text1
          print column 72,wks86_text2
          print column 72,wks86_text3
```

```
    print column 72,wks86_text4
    print column 72,wks86_text5
    print column 72,wks86_text6
    print column 72,wks86_text7
    print column 72,wks86_text8
    print column 72,wks86_text9
  end
  else if scnt=1 then begin
    print column 72,wks86_text1
    print column 72,wks86_text2
    print column 72,wks86_text3
    print column 72,wks86_text4
    print column 72,wks86_text5
    print column 72,wks86_text6
    print column 72,wks86_text7
    print column 72,wks86_text8
    print column 72,wks86_text9
  end
  else if scnt=2 then begin
    print column 72,wks86_text2
    print column 72,wks86_text3
    print column 72,wks86_text4
    print column 72,wks86_text5
    print column 72,wks86_text6
    print column 72,wks86_text7
    print column 72,wks86_text8
    print column 72,wks86_text9
  end
  else if scnt=3 then begin
    print column 72,wks86_text3
    print column 72,wks86_text4
    print column 72,wks86_text5
    print column 72,wks86_text6
    print column 72,wks86_text7
    print column 72,wks86_text8
    print column 72,wks86_text9
  end
```

```
        else if scnt=4 then begin
          print column 72,wks86_text4
          print column 72,wks86_text5
          print column 72,wks86_text6
          print column 72,wks86_text7
          print column 72,wks86_text8
          print column 72,wks86_text9
        end
        else if scnt=5 then begin
          print column 72,wks86_text5
          print column 72,wks86_text6
          print column 72,wks86_text7
          print column 72,wks86_text8
          print column 72,wks86_text9
        end
        else if scnt=6 then begin
          print column 72,wks86_text6
          print column 72,wks86_text7
          print column 72,wks86_text8
          print column 72,wks86_text9
        end
        else if scnt=7 then begin
          print column 72,wks86_text7
          print column 72,wks86_text8
          print column 72,wks86_text9
        end
        else if scnt=8 then begin
          print column 72,wks86_text8
          print column 72,wks86_text9
        end
        else if scnt=9 then begin
          print column 72,wks86_text9
        end

      end
```

2. Workpackage Index

/u/plan/rpt.Linda/wkpindex

This index is similar in structure to the project index, except that it includes all projects in cssprrdte rather than just those that are CSS funded. The page number locations held by hyphens should be replaced by the actual page numbers of the first workpackage for that project.

```
database mat_plan end

define
  variable junk type integer
end

output
  left margin 0
  right margin 132
  report to "wkpindex.out"
end

read into b
  proj_indx proj_title
  cssprrdte_miss_area
  joining cssprrdte_proj_indx = proj_indx
end

sort by proj_pe proj_no proj_cmd end

format

page header
  print column 47,"*****  U N C L A S S I F I E D  *****"
  skip 2 lines
  print 55 spaces,"RDTE PROJECT INDEX"
  skip 3 lines
  print 16 spaces,"PE",5 spaces,"PROJ",3 spaces,"DA MA",23 spaces,"TITLE",
        38 spaces,"COMMAND",8 spaces,"PAGE"
  skip 2 lines

before group of proj_no
  let junk = junk+1

before group of proj_cmd
  print 15 spaces,proj_pe,3 spaces,proj_no,3 spaces,cssprrdte_miss_area,
  print 3 spaces,proj_title,3 spaces,proj_cmd,3 spaces,"----"
```

```
page trailer
  skip 1 line
  print column 47,"*****  U N C L A S S I F I E D  *****"
  skip 1 line
  print 60 spaces, pageno

end
```

F. PRIORITY REPORTS

1. System Priority Rating Computer

/u/plan/rpt.Linda/priorl

This report computes the system priority rating score using the CSS MAMP methodology. It is subject to revision as differences among the mission area managers as to what constitutes an effective methodology are resolved. It prints the new scores for each system in ASCII format for entry into the data base file priorl. This program is called automatically by the shell /u/plan/db/priority.

```
{ System Priority Ratings Developer }

database mat_plan end

define
  variable tot type integer
  variable ndef type integer
  variable na type integer
  variable nb type integer
  variable nc type integer
  variable nd type integer
  variable ne type integer
  variable nx type integer
  variable score  type integer
  variable conval type integer
  variable defval type integer
end

output
  page length 9999
  left margin 0
  right margin 67
  top margin 0
  report to "priori.out"
end

read into a
  ssnpri_ssn_no ssnpri_defic ssnpri_con_val
end

sort by  ssnpri_ssn_no ssnpri_defic ssnpri_con_val end

format

before group of ssnpri_ssn_no
  let score = 0
  let ndef = 0
  let na = 0
```

```
        let nb = 0
        let nc = 0
        let nd = 0
        let ne = 0
        let nx = 0

      before group of ssnpri_defic
        if ssnpri_defic>0 then begin
          if ssnpri_con_val="A" then begin
            let na = na+1
            let conval = 16  end
          else if ssnpri_con_val = "B" then begin
            let nb = nb+1
            let conval = 8  end
          else if ssnpri_con_val = "C" then begin
            let nc = nc+1
            let conval = 4 end
          else if ssnpri_con_val = "D" then begin
            let nd = nd+1
            let conval = 2  end
          else if ssnpri_con_val = "E" then begin
            let ne = ne+1
            let conval = 1 end
          else begin
            let nx = nx+1
            let conval = 0
          end
          if ssnpri_defic=1001 then let defval=19
          else let defval = (300-ssnpri_defic)/10+1
          let score = score+defval*conval
          let ndef = ndef+1
        end

      after group of ssnpri_ssn_no
        if ndef>0 then begin
          print ssnpri_ssn_no,"|",ndef,"|",na,"|",nb,"|",nc,"|",nd,
                "|",ne,"|",nx,"|",score,"|"
        end

      end
```

2. Workpackage Priority Ratings Computer

/u/plan/rpt.Linda/prior2

This report computes the workpackage priority rating score using the CSS MAMP methodology. This technique is merely the sum of the raw scores of the related system for each workpackage. It prints the workpackage score in ASCII format for entry into the data base file prior2. This program is called automatically by the shell /u/plan/db/priority.

THE BDM CORPORATION

```
{ Workpackage Priority Ratings Generator }

database mat_plan end

define
  variable nsys    type integer
  variable hisys    type integer
  variable losys    type integer
  variable score   type integer
end

output
  page length 9999
  top margin 0
  left margin 0
  right margin 132
  report to "prior2.out"
end

read into a
  pseudolink
  prior1_score
   joining csscontrol_ssn_no = pseudolink_ssn_no
       and pseudolink_ssn_no = optional prior1_ssn_no
end

sort by  pseudolink_cmd pseudolink_wkpkg pseudolink_ssn_no end

format

before group of pseudolink_wkpkg
  let score = 0
  let nsys = 0
  let hisys = 0
  let losys = 32767
```

```
before group of pseudolink_ssn_no
  if pseudolink_ssn_no <> " " then begin
    let score = score+priori_score
    let nsys = nsys+1
    if priori_score>hisys then let hisys = priori_score
    if priori_score<losys then let losys = priori_score
  end

after group of pseudolink_wkpkg
  if nsys=0 then let losys = 0
  print pseudolink_cmd,"|",pseudolink_cat,"|",pseudolink_wkpkg,"|",nsys,"|",
        hisys,"|",losys,"|",score,"|"

end
```

3. System 1 to N Priority Report

/u/plan/rpt.Linda/priorcss

This report rank orders the csscontrol systems which are not base case or type classified. It produces a printed report that shows the ranking, raw score, and the underlying deficiencies and contribution values. A variation of this report, priorcsscmd, prints the same data but limits the systems considered to a single command. Also, the report priorsys is available as a variant of priorcss that prints the scoring data contained in the file priorl.

```
{ System Priority Ratings Report }
{ Previously computed Ratings stored in Prior1 }

database mat_plan end

define
  variable cnt type integer
  variable flag type integer
end

output
  left margin 0
  right margin 132
  report to "priorcss.out"
end

read into a
  csscontrol_ssn_no
  lrpproc_ssn_title lrpproc_miss_name
  ssndesc_cmd
  prior1
  ssndef
  where csscontrol_type > 1
  joining csscontrol_ssn_no = optional prior1_ssn_no
      and csscontrol_ssn_no = optional ssndesc_ssn_no
      and csscontrol_ssn_no = optional lrpproc_ssn_no
      and csscontrol_ssn_no = optional ssndef_ssn_no
end

sort by  prior1_score descending  prior1_ndef descending
         csscontrol_ssn_no  end

format

page header
  print column 47,"****** C O N F I D E N T I A L  ******"
  skip 2 lines
  print column 53,"CSS RELATED SYSTEM RATINGS"
```

```
    skip 3 lines
    print "       SSN     DA MA    AMC MGR    TITLE",column 125,"RATING"
    skip 1 line

  page trailer
    skip 2 lines
    print column 47,"****** C O N F I D E N T I A L  ******"
    skip 1 line
    print column 60, pageno

  before group of csscontrol_ssn_no
    let cnt = cnt+1
    print cnt using "###. ",csscontrol_ssn_no,2 spaces,lrpproc_miss_name,
       2 spaces,ssndesc_cmd[1,8],2 spaces,lrpproc_ssn_title,3 spaces;
    if ssndef_def_1>0 then print ssndef_def_1 using "#####","-",ssndef_con_1;
    if ssndef_def_2>0 then print ssndef_def_2 using "#####","-",ssndef_con_2;
    if ssndef_def_3>0 then print ssndef_def_3 using "#####","-",ssndef_con_3;
    if ssndef_def_4>0 then print ssndef_def_4 using "#####","-",ssndef_con_4;
    if ssndef_def_5>0 then print ssndef_def_5 using "#####","-",ssndef_con_5;
    print column 125,priori_score
    if ssndef_def_6>0 then begin
      print 84 spaces;
      if ssndef_def_6>0 then print ssndef_def_6 using "#####","-",ssndef_con_6;
      if ssndef_def_7>0 then print ssndef_def_7 using "#####","-",ssndef_con_7;
      if ssndef_def_8>0 then print ssndef_def_8 using "#####","-",ssndef_con_8;
      if ssndef_def_9>0 then print ssndef_def_9 using "#####","-",ssndef_con_9;
      if ssndef_def_10>0 then print ssndef_def_10 using "#####","-",ssndef_con_10;
      print ""
    end
    let flag = 1

  on every  record
    if flag>1 then begin
      print 84 spaces;
      if ssndef_def_1>0 then print ssndef_def_1 using "#####","-",ssndef_con_1;
      if ssndef_def_2>0 then print ssndef_def_2 using "#####","-",ssndef_con_2;
      if ssndef_def_3>0 then print ssndef_def_3 using "#####","-",ssndef_con_3;
      if ssndef_def_4>0 then print ssndef_def_4 using "#####","-",ssndef_con_4;
```

```
        if ssndef_def_5>0 then print ssndef_def_5 using "#####","-",ssndef_con_5;
        print ""
        if ssndef_def_6>0 then begin
          print 84 spaces;
          if ssndef_def_6>0 then print ssndef_def_6 using "#####","-",ssndef_con_6;
          if ssndef_def_7>0 then print ssndef_def_7 using "#####","-",ssndef_con_7;
          if ssndef_def_8>0 then print ssndef_def_8 using "#####","-",ssndef_con_8;
          if ssndef_def_9>0 then print ssndef_def_9 using "#####","-",ssndef_con_9;
          if ssndef_def_10>0 then print ssndef_def_10 using "#####","-",ssndef_con_10;
          print ""
        end
      end
      let flag = flag+1

    end
```

4. Workpackage 1 to N Priority Report

/u/plan/rpt.Linda/priorwpall

This report rank orders funded workpackages* by their priority rating score contained in the file prior2. It prints a list of workpackages in priority order. The related program priorwpcmd limits the workpackages to a single command, and the report priorwp prints the data of prior2 in a simpler format.

*Note - The report determines funding levels incorrectly and so will include all workpackages in cssprrdte.

```
{ Workpackage Priority Ratings Report for all Commands }
{ For Only Funded Workpackages}
{ Previously Computed Priorities from Prior1 and Prior2 }

database mat_plan end

define
  variable diff  type integer
  variable cnt type integer
end

output
  left margin 0
  right margin 132
  report to "priorwpall.out"
end

read into a
  wkpkg_no_indx wkpkg_pe wkpkg_proj wkpkg_task wkpkg_title
  wkpkg_fund_yr0 wkpkg_fund_yr1 wkpkg_fund_yr2 wkpkg_fund_yr3
  wkpkg_fund_yr4 wkpkg_fund_yr5 wkpkg_fund_yr6 wkpkg_fund_yr7
  prior2_score prior2_nsys
  where wkpkg_cat="6.3" and wkpkg_subcat <> "6.5"
        and (wkpkg_pe=cssprrdte_pe)
        and (wkpkg_fund_yr0 > "0" or
        wkpkg_fund_yr1 > "0" or
        wkpkg_fund_yr2 > "0" or
        wkpkg_fund_yr3 > "0" or
        wkpkg_fund_yr4 > "0" or
        wkpkg_fund_yr5 > "0" or
        wkpkg_fund_yr6 > "0" or
        wkpkg_fund_yr7 > "0")
   joining wkpkg_proj = cssprrdte_proj_no
       and wkpkg_no_indx = optional prior2_wkpkg_indx
end

sort by  prior2_score descending prior2_nsys descending wkpkg_no end
```

```
format

page header
  print column 47,"****** U N C L A S S I F I E D  ******"
  skip 2 lines
  print column 44,"PRIORITY RATINGS FOR CSS FUNDED WORKPACKAGES"
  skip 2 lines
  print "PRIORITY  PE      PROJ   TASK      WKPKG NO  COMMAND     TITLE",
      54 spaces," RATING  # SYS"
  skip 1 lines

page trailer
  skip 2 lines
  print column 47,"****** U N C L A S S I F I E D  ******"
  skip 1 line
  print column 60, pageno

after group of wkpkg_no
  if wkpkg_fund_yr0 > "0" or
     wkpkg_fund_yr1 > "0" or
     wkpkg_fund_yr2 > "0" or
     wkpkg_fund_yr3 > "0" or
     wkpkg_fund_yr4 > "0" or
     wkpkg_fund_yr5 > "0" or
     wkpkg_fund_yr6 > "0" or
     wkpkg_fund_yr7 > "0" then

  let cnt = cnt+1
  print cnt,". ",3 spaces,wkpkg_pe,3 spaces,wkpkg_proj,3 spaces,wkpkg_task,
    1 space,wkpkg_no,3 spaces,wkpkg_cmd,wkpkg_title,prior2_score,prior2_nsys

end
```

5. Priority Rating Comparison Computer

/u/plan/rpt.Linda/pcompØ

This report computes the system priority rating scores using the three major alternative rating schemes being considered by the Mission Area Managers. It prints them in ASCII format to be loaded into the data base file pcompØ. The program pcompl and pcomp2, and the data base files of the same name, merely extract certain ratings data and computer rank orderings. These programs are called automatically by the shell /u/plan/db/pcomp.

```
{ CSS Related System Priority Ratings Developer }
{ Compare Rating Methodologies }

database mat_plan end

define
  variable ndef type integer
  variable score0 type float
  variable score1 type float
  variable score2 type float
  variable conval0 type float
  variable conval1 type float
  variable conval2 type float
  variable defval0 type integer
  variable defval1 type float
  variable defval2 type float
  variable x       type float
  variable x2      type float
  variable x3      type float
end

output
  page length 9999
  left margin 0
  right margin 132
  top margin 0
  report to "pcomp0.out"
end

read into a
  csscontrol_ssn_no
  ssnpri_defic ssnpri_con_val
  where ssnpri_con_val <> " " and csscontrol_type >1
  joining csscontrol_ssn_no = ssnpri_ssn_no
end

sort by  csscontrol_ssn_no ssnpri_defic ssnpri_con_val end
```

```
format

before group of csscontrol_ssn_no
  let score0 = 0.0
  let score1 = 0.0
  let score2 = 1.0
  let ndef = 0
before group of ssnpri_defic
  if ssnpri_defic>0 then begin
    if ssnpri_con_val="A" then begin
      let conval0 = 16.0
      let conval1 = 100.0
      let conval2 =  0.8  end
    else if ssnpri_con_val = "B" then begin
      let conval0 =  8.0
      let conval1 =  50.0
      let conval2 =  0.6  end
    else if ssnpri_con_val = "C" then begin
      let conval0 =  4.0
      let conval1 =  25.0
      let conval2 =  0.4  end
    else if ssnpri_con_val = "D" then begin
      let conval0 =  2.0
      let conval1 =  10.0
      let conval2 =  0.2  end
    else if ssnpri_con_val = "E" then begin
      let conval0 =  1.0
      let conval1 =  5.0
      let conval2 =  0.1  end
    else begin
      let conval0 =  0.0
      let conval1 =  0.0
      let conval2 =  0.0
    end
    if ssnpri_defic=1001 then begin
      let defval0 = 19
      let defval1 = 0.606531
      let defval2 = 0.497807
    end
```

```
        else begin
          let defval0 = (300-ssnpri_defic)/10+1
          let x = -ssnpri_defic/228.0
          let x2 = x*x
          let x3 = x2*x
          let defval1 = 1+x+x2/2.0+x3/6.0+x2*x2/24.0+x3*x2/120.0+x3*x3/720.0
          let defval2 = 1.0-(ssnpri_defic-0.5)/228.0
        end
        let score0 = score0+defval0*conval0
        let score1 = score1+defval1*conval1
        let score2 = score2*(1.0-defval2*conval2)
        let ndef = ndef+1
      end

    after group of csscontrol_ssn_no
      if ndef>0 then begin
        let score2 = 1.0-score2
        print csscontrol_ssn_no,"|",ndef,"|",score0,"|",score1 using "#####.###"
                                                    ,"|",score2 using "#.######","|"
      end

    end
```

6. Priority Rating Schemes Comparison Report

/u/plan/rpt.Linda/pcomp

This report, using the data in pcomp0, pcomp1, and pcomp2, compares the results obtained by each of the three alternative system rating schemes. It produces standard statistical reports of difference analysis and correlation coefficients between each pair of methods for an actual data sample. It compares the actual rankings obtained by each method rather than the raw scores.

```
database mat_plan end

define
  variable pflag    type integer
  variable cnt      type integer
  variable diff1    type integer
  variable diff2    type integer
  variable diff3    type integer
  variable maxdiff  type integer
  variable sm1      type float
  variable sm2      type float
  variable sm3      type float
  variable smm      type float
  variable smsq1    type float
  variable smsq2    type float
  variable smsq3    type float
  variable smsqm    type float
  variable m1       type float
  variable m2       type float
  variable m3       type float
  variable mm       type float
  variable sd1      type float
  variable sd2      type float
  variable sd3      type float
  variable sdm      type float
  variable sx       type float
  variable sy       type float
  variable sz       type float
  variable sx2      type float
  variable sy2      type float
  variable sz2      type float
  variable sxy      type float
  variable sxz      type float
  variable syz      type float
  variable t1       type float
  variable t2       type float
  variable t3       type float
  variable r2       type float
end
```

```
output
  left margin 0
  right margin 132
  report to "pcomp.out"
end

read into a
  lrpproc_ssn_title lrpproc_miss_name
  ssndesc_cmd
  pcomp0_ssn_no pcomp0_ndef pcomp0_score0
  pcomp1_seq_no pcomp1_score1
  pcomp2_seq_no pcomp2_score2
  joining pcomp0_ssn_no = pcomp1_ssn_no
      and pcomp0_ssn_no = pcomp2_ssn_no
      and pcomp0_ssn_no = optional lrpproc_ssn_no
      and pcomp0_ssn_no = optional ssndesc_ssn_no
end

sort by  pcomp0_score0 descending  pcomp0_ndef descending
         pcomp0_ssn_no  end
format

on last record
  let pflag = 1
  skip to top of page
  let m1 = sm1/cnt
  let m2 = sm2/cnt
  let m3 = sm3/cnt
  let mm = smm/cnt
  let sd1 = (smsq1-cnt*m1*m1)/(cnt-1.0)
  let sd2 = (smsq2-cnt*m2*m2)/(cnt-1.0)
  let sd3 = (smsq3-cnt*m3*m3)/(cnt-1.0)
  let sdm = (smsqm-cnt*mm*mm)/(cnt-1.0)
  skip 4 lines
  print "DIFFERENCE ANALYSIS:       MEAN   VARIANCE"
  print "METHOD A - METHOD B",m1,sd1
  print "METHOD A - METHOD C",m2,sd2
  print "METHOD B - METHOD C",m3,sd3
```

```
print "MAXIMUM DIFFERENCE ",mm,sdm
skip 4 lines
print column 60,"METHOD A          METHOD B          METHOD C"
print "COEFFICIENTS OF DETERMINATION:   METHOD A:";
  let t1 = cnt*sx2-sx*sx
  let t2 = cnt*sx2-sx*sx
  let t3 = cnt*sx2-sx*sx
  let r2 = (t1*t1)/(t2*t3)
  print column 60,r2 using "#.#####";
  let t1 = cnt*sxy-sx*sy
  let t2 = cnt*sx2-sx*sx
  let t3 = cnt*sy2-sy*sy
  let r2 = (t1*t1)/(t2*t3)
  print column 77,r2 using "#.#####";
  let t1 = cnt*sxz-sx*sz
  let t2 = cnt*sx2-sx*sx
  let t3 = cnt*sz2-sz*sz
  let r2 = (t1*t1)/(t2*t3)
  print column 94,r2 using "#.#####"
print "                                  METHOD B:";
  let t1 = cnt*sy2-sy*sy
  let t2 = cnt*sy2-sy*sy
  let t3 = cnt*sy2-sy*sy
  let r2 = (t1*t1)/(t2*t3)
  print column 77,r2 using "#.#####";
  let t1 = cnt*syz-sy*sz
  let t2 = cnt*sy2-sy*sz
  let t3 = cnt*sz2-sz*sz
  let r2 = (t1*t1)/(t2*t3)
  print column 94,r2 using "#.#####"
print "                                  METHOD C:";
  let t1 = cnt*sz2-sz*sz
  let t2 = cnt*sz2-sz*sz
  let t3 = cnt*sz2-sz*sz
  let r2 = (t1*t1)/(t2*t3)
  print column 94,r2 using "#.#####"
skip 8 lines
```

```
    print "METHOD A:   300 COMPLEMENT DEFICIENCY VALUES"," TIMES GEOMETRIC CONTRIBUTION
    print "            SUMMED OVER ALL APPLICABLE DEFICIENCIES FOR EACH SYSTEM"
    skip 2 lines
    print "METHOD B:   EXPONENTIAL DEFICIENCY VALUES TIMES"," GEOMETRIC CONTRIBUTION VAL
    print "            SUMMED OVER ALL APPLICABLE DEFICIENCIES FOR EACH SYSTEM"
    skip 2 lines
    print "METHOD C:   LINEARLY DECREASING DEFICIENCY VALUES"," TIMES LINEAR CONTRIBUTIO
    print "            MATHEMATICALLY COMBINED TO ACCOUNT FOR"," OVERLAP AMONG APPLICABL

page header
    print column 37,"CSS RELATED SYSTEM PRIORITY RATINGS - COMPARISON OF METHODS"
    skip 2 lines
    if pflag = 0 then begin
      print column 75,"  METHOD A     METHOD B     METHOD C       DIFFERENCES"
      print "SSN",4 spaces,"DA MA",2 spaces,"AMC MGR",3 spaces,"TITLE",
            column 75," SEQ/SCORE    SEQ/SCORE    SEQ/SCORE    A&B   A&C   B&C   MAX"

    end
    else skip 2 lines
    skip 1 line

page trailer
    skip 2 lines
    print column 64, pageno

before group of pcomp0_ssn_no
    let cnt = cnt+1
    let diff1 = cnt-pcomp1_seq_no
    if diff1<0 then let diff1 = -diff1
    let diff2 = cnt-pcomp2_seq_no
    if diff2<0 then let diff2 = -diff2
    let diff3 = pcomp1_seq_no-pcomp2_seq_no
    if diff3<0 then let diff3 = -diff3
    let maxdiff = 0
    if diff1>maxdiff then let maxdiff = diff1
    if diff2>maxdiff then let maxdiff = diff2
    if diff3>maxdiff then let maxdiff = diff3
```

```
        let sm1 = sm1+diff1
        let sm2 = sm2+diff2
        let sm3 = sm3+diff3
        let smm = smm+maxdiff
        let smsq1 = smsq1+diff1*diff1
        let smsq2 = smsq2+diff2*diff2
        let smsq3 = smsq3+diff3*diff3
        let smsqm = smsqm+maxdiff*maxdiff
        let sx = sx+cnt
        let sy = sy+pcomp1_seq_no
        let sz = sz+pcomp2_seq_no
        let sx2 = sx2+cnt*cnt
        let sy2 = sy2+pcomp1_seq_no*pcomp1_seq_no
        let sz2 = sz2+pcomp2_seq_no*pcomp2_seq_no
        let sxy = sxy+cnt*pcomp1_seq_no
        let sxz = sxz+cnt*pcomp2_seq_no
        let syz = syz+pcomp1_seq_no*pcomp2_seq_no
        print pcomp0_ssn_no,2 spaces,lrpproc_miss_name,ssndesc_cmd[1,10],
              lrpproc_ssn_title,
              column 76,cnt using "###","/",pcomp0_score0 using "####",
              column 88,pcomp1_seq_no using "###","/",pcomp1_score1 using "###.#",
              column 100,pcomp2_seq_no using "###","/",pcomp2_score2 using "#.###",
              1 space,diff1 using " ---#",diff2 using " ---#",diff3 using " ---#",
              maxdiff using " ---#"

    end
```

END

DATE
FILMED

-86